



BOROUGH OF DARWEN.

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REPORT

OF

**F. G. HAWORTH, M.B.C.M., L.R.C.S.,**  
**(GLAS.) (EDIN.)**

D.P.H. (Camb.), F.R.Met.Soc.,

**MEDICAL OFFICER OF HEALTH,**

**POLICE SURGEON,**

FOR THE

**Year ending December 31st, 1905.**

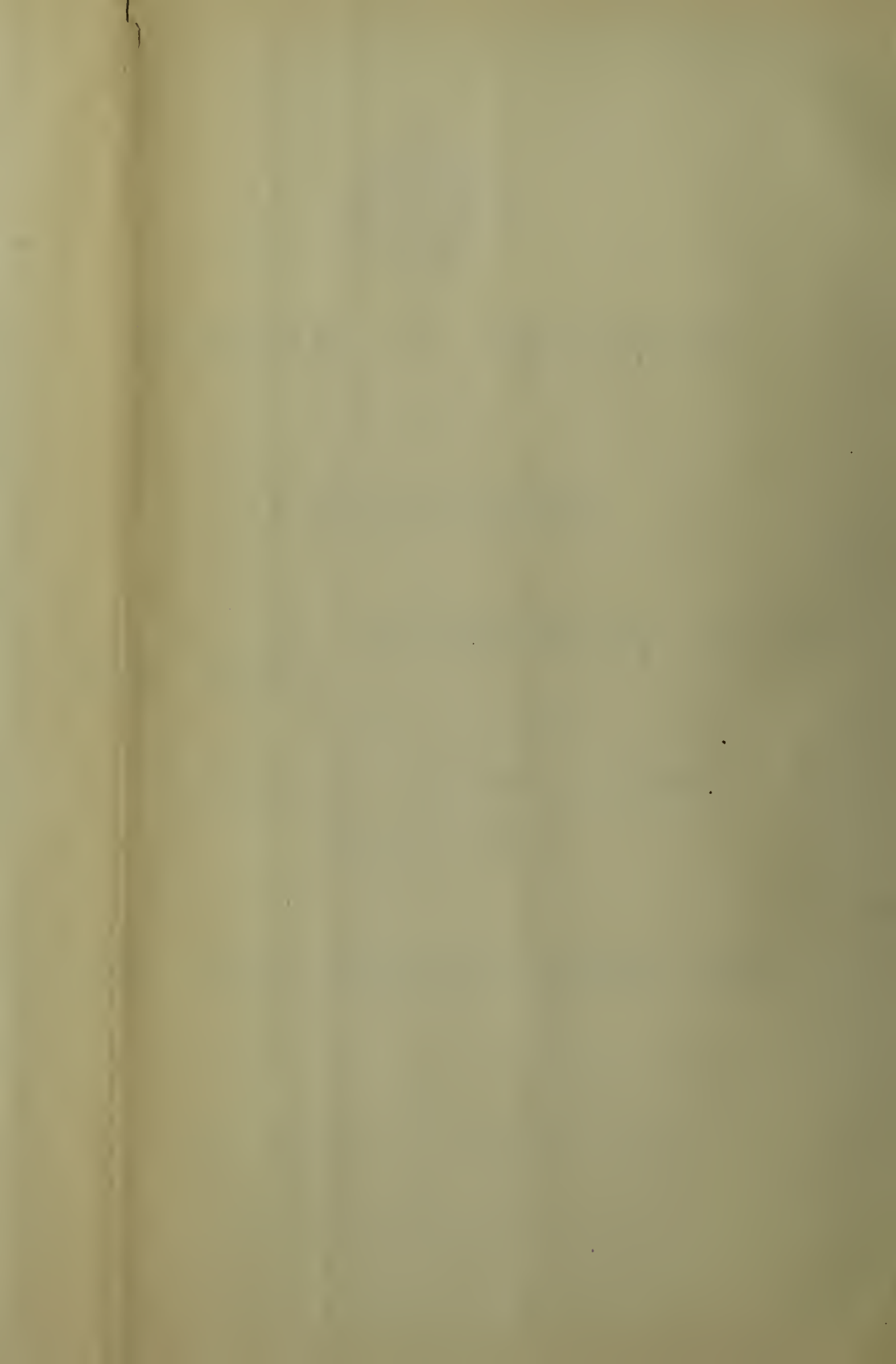
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DARWEN :

J. J. Riley, Printer and Bookbinder, "News" Office.

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1906.





VALE HOUSE, DARWEN,

FEBRUARY, 1906.

**TO THE CHAIRMAN AND MEMBERS OF THE  
HEALTH COMMITTEE.**

GENTLEMEN,

I have the honour to present to you my Eleventh Annual Report, being for the Year ending December 31st, 1905.

I am, Gentlemen,

Your obedient Servant,

**F. C. HAWORTH,**

Medical Officer of Health.

Darwen Urban Sanitary Authority.

# Members of the Health Committee.

1905-1906.



COUNCILLOR THOMAS PEARCE DAVIES, J.P., MAYOR.

## Chairman :

ALDERMAN RALPH SHORROCK.

## Vice-Chairman :

COUNCILLOR GEORGE PICKUP HOLDEN.

|                               |                                     |
|-------------------------------|-------------------------------------|
| ALDERMAN A. CARUS, J.P., C.C. | ALDERMAN A. T. ECCLES, J.P.         |
| „ J. COCKER, J.P.             | „ T. LIGHTBOWN,<br>B.A., J.P., C.A. |
| ALDERMAN JOHN TOMLINSON, J.P. |                                     |

|                                                |                       |
|------------------------------------------------|-----------------------|
| COUNCILLOR J. T. BALLANTYNE,<br>M.B.C.M., J.P. | COUNCILLOR F. HINDLE. |
| „ WILLIAM BERRY.                               | „ JOHN HOLDEN.        |
| „ E. CATTERALL.                                | „ H. C. JEPSON.       |
| „ A. COOPER.                                   | „ W. P. KAY.          |
| „ P. DUCKWORTH.                                | „ J. PICKUP.          |
| „ T. DUXBURY.                                  | „ JOHN B. THORNLEY.   |
| „ A. GIBSON.                                   | „ J. TOMLINSON.       |
|                                                | „ R. YATES.           |

COUNCILLOR W. WORTH, J.P.

TOWN CLERK ... .. Mr. WILLIAM P. HALLIWELL, B.A.

NUISANCE INSPECTORS ... .. (South Division)—W. E. MARSDEN.  
(North Division)— C. R. WALSH.

SUPERINTENDENT OF SCAVENGING ... .. JOSEPH NICCOLL.

MEDICAL OFFICER OF INFECTIOUS DISEASES HOSPITAL ... F. G. HAWORTH.

## Population.

This is estimated for the middle of the year, which equalises the increased gain of the second half of the year by the lesser increase of the first six months ; the number works out at 39,918 by natural increment, or the difference obtained by the increase of Births over Deaths. The large number of new Houses erected to meet the requirements of the Mills built and being built will be taken into consideration when the Population is under estimation for the coming year, added to the normal increment will be the number of persons in the new property estimated on the basis of 4.5 persons per house, or such a house population as I think will meet the requirements of the case without over doing it.

The total is made up as follows in the various Wards in which the town is divided—

|                         |        |
|-------------------------|--------|
| CENTRAL WARD .....      | 7,214  |
| WEST-CENTRAL WARD ..... | 3,884  |
| NORTH-EAST WARD .....   | 9,738  |
| NORTH-WEST WARD .....   | 5,035  |
| SOUTH-EAST WARD .....   | 6,810  |
| SOUTH-WEST WARD .....   | 7,237  |
| <hr/>                   |        |
| TOTAL.....              | 39,918 |
| <hr/>                   |        |

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## Births.

There were 422 Males and 396 Females certified during the year, making a total of 818 ; the Birth-rate being 20.4 per 1,000 of the estimated Population.

The average for the last 24 years is 28.0 per 1,000.

March showed the highest rate with 24.9 per 1,000, and April the lowest with 16.8 per 1,000.

The highest rate was in 1883, when it was 34.4 per 1,000, and the lowest came in the year under question—20.4 per 1,000 in 1905.

The rate is still a slightly diminishing one. This decrease has been going on all over the country since 1870, and has been fully dealt with by me at various times; there is no doubt that the desire for smaller families is being followed by its accomplishment.

### MIDWIVES' ACT, 1902.

Under this Statute all women who desire to follow the ordinary practice of Midwifery as a whole, or part time practice, must become registered; it is a repetition of several similar Acts beforetime passed as a protection to the public without injuring a particular class of individuals, whereby these women, not being certificated, may, on application, be entered on the Register.

This procedure entitles them to the privilege of practice for the purpose of earning a livelihood, and at the same time subjects them to the Regulations prescribed for the prevention of the spread of Infectious Disease, and the more scientific treatment of the lying-in women, and of children. So far there is no doubt a very great deal of good has been done—first, to the Midwives themselves in educating them in the principles of antiseptic midwifery, and to the persons coming under their charge, by instructing them in the more modern and better ways of nursing the children entrusted to them.

The accompanying list gives the names and addresses of the Midwives who have up to date been put upon the Register:—

Shorrock, Mary, 3, Culvert Street, Watery Lane.

Adams, Eliza, 6, Lynwood Avenue.

Forshaw, Jane, 35, Haworth Street.

Duxbury, Jane, 106, Kay Street.

Rowe, Annie Maria, 13, Marsh House Lane.  
 Holden, Alice, 7, Watery Lane, Spring Vale.  
 Leach, Emma, 2, Alexandra View.  
 Harwood, Ann, 358, Bolton Road.  
 Slater, Mary Jane, 2, Chapels Brow.  
 Basnett, Eliza Jane, 18, Sudell Road.  
 Aspden, Ann, 28, Cavendish Street.  
 Brown, Annie MacKenzie, Late District Nurses' Home—Gone to  
 Manchester for One Year.  
 Caddy, Ellen, 132, Greenway Street.  
 Ashworth, Ann, 28, Blacksnape.  
 Forster, Ellen Eliza, 87, Tockholes Road.  
 Nivens, Margaret, 112, Elizabeth Terrace.  
 Bury, Fanny, 41, London Terrace.  
 Mather, Alice Lucinda, 14, Sudell Road.  
 Parker, Priscilla, District Nurses' Home.  
 Jepson, Alice, 9, Shorrock Fold.  
 Upton, Sarah Lydia, The Nurses' Home, Bolton Road.  
 Laycock, Dora Margaret, The Nurses' Home.  
 Teague, Mary Alice, 27, Richmond Terrace.  
 Mitchell, Gertrude, District Nurses' Home.

#### ILLEGITIMATE BIRTHS.

There were Twenty-five children of this class born, being 3.0 per cent. of the total Births.

The rate, viz., 3.0 per cent., is slightly under that of the preceding year, and yet it is much too high for any town.

I have repeatedly spoken of the too limited Sleeping Accommodation in the general run of artizans' dwellings, where the mixing of the sexes above a certain age is a necessity owing to this lack of room ; the feelings of both must be blunted and lack that refinement which tends to a higher moral scale ; this needs only to be further enhanced by the crowding of our streets at night, by visits to public-houses, to come within ear-shot of conversation often lewd in the extreme, and then loss of respect for self and for the gentler sex.

The percentage of Midwifery cases attended by medical men was 50.24, showing a decrease on the previous year of 0.51 per cent.

**TABLE I.**

|                 | NUMBER OF BIRTHS. |          |        | Rate per 1,000<br>Estimated<br>Population. |
|-----------------|-------------------|----------|--------|--------------------------------------------|
|                 | Males.            | Females. | Total. |                                            |
| January .....   | 31                | 32       | 63     | 18.9                                       |
| February .....  | 34                | 31       | 65     | 19.5                                       |
| March .....     | 42                | 41       | 83     | 24.9                                       |
| April .....     | 29                | 27       | 56     | 16.8                                       |
| May .....       | 37                | 34       | 71     | 21.3                                       |
| June .....      | 35                | 35       | 70     | 21.0                                       |
| July .....      | 41                | 38       | 79     | 23.7                                       |
| August .....    | 43                | 31       | 74     | 22.2                                       |
| September ..... | 32                | 31       | 63     | 18.9                                       |
| October .....   | 28                | 34       | 62     | 18.6                                       |
| November .....  | 39                | 32       | 71     | 21.3                                       |
| December .....  | 31                | 30       | 61     | 18.3                                       |
|                 | 422               | 396      | 818    | 20.4                                       |

**TABLE II.**  
ILLEGITIMATE BIRTHS.

|                | Number. | Percentage of Births. |
|----------------|---------|-----------------------|
| January.....   | 2       | 3.1                   |
| February.....  | 1       | 1.5                   |
| March.....     | 0       | 0.0                   |
| April.....     | 0       | 0.0                   |
| May.....       | 4       | 5.6                   |
| June.....      | 1       | 1.4                   |
| July.....      | 4       | 5.0                   |
| August.....    | 3       | 4.0                   |
| September..... | 1       | 1.5                   |
| October.....   | 4       | 6.4                   |
| November.....  | 5       | 7.0                   |
| December.....  | 0       | 0.0                   |
|                | 25      | 3.0                   |

**TABLE III.** gives the Estimated Populations, Number of Births, and the Birth-rates for the Darwen Sanitary District since 1882 inclusive.

**TABLE III.**

| Year. | Estimated Population at the Middle of Each Year. | Total Births. | Birth-rate. |
|-------|--------------------------------------------------|---------------|-------------|
| 1882  | 30,295                                           | 987           | 32.2        |
| 1883  | 30,733                                           | 1057          | 34.4        |
| 1884  | 31,360                                           | 978           | 31.9        |
| 1885  | 31,720                                           | 1015          | 32.1        |
| 1886  | 32,185                                           | 965           | 30.0        |
| 1887  | 33,491                                           | 1000          | 30.8        |
| 1888  | 33,500                                           | 994           | 29.6        |
| 1889  | 34,500                                           | 978           | 28.1        |
| 1890  | 36,500                                           | 1075          | 29.4        |
| 1891  | 34,500                                           | 1115          | 32.3        |
| 1892  | 35,000                                           | 1057          | 30.2        |
| 1893  | 35,500                                           | 955           | 26.1        |
| 1894  | 36,000                                           | 1039          | 28.8        |
| 1895  | 36,000                                           | 1128          | 31.3        |
| 1896  | 36,052                                           | 1032          | 28.1        |
| 1897  | 37,500                                           | 1114          | 29.7        |
| 1898  | 37,500                                           | 1131          | 30.0        |
| 1899  | 37,900                                           | 1062          | 28.0        |
| 1900  | 38,600                                           | 980           | 25.3        |
| 1901  | 38,211                                           | 858           | 22.4        |
| 1902  | 38,712                                           | 891           | 23.0        |
| 1903  | 39,114                                           | 941           | 24.0        |
| 1904  | 39,516                                           | 820           | 20.7        |
| 1905  | 39,918                                           | 818           | 20.4        |

Average for the last 24 years—28.0.

TABLE IV.—Births in Wards, 1905.

|                  | Central. |    | West-Central. |    | North-East. |     | North-West. |    | South-East. |    | South-West. |    | TOTAL. |     |
|------------------|----------|----|---------------|----|-------------|-----|-------------|----|-------------|----|-------------|----|--------|-----|
|                  | M.       | F. | M.            | F. | M.          | F.  | M.          | F. | M.          | F. | M.          | F. | M.     | F.  |
| January .....    | 2        | 5  | 6             | 3  | 9           | 8   | 2           | 8  | 6           | 4  | 6           | 4  | 31     | 32  |
| February .....   | 5        | 4  | 3             | 5  | 12          | 6   | 2           | 5  | 6           | 5  | 6           | 6  | 34     | 31  |
| March .....      | 11       | 6  | 2             | 5  | 12          | 10  | 4           | 8  | 6           | 4  | 7           | 8  | 42     | 41  |
| April .....      | 5        | 3  | 4             | 4  | 6           | 9   | 4           | 1  | 4           | 5  | 6           | 5  | 29     | 27  |
| May .....        | 4        | 6  | 4             | 2  | 9           | 10  | 4           | 6  | 8           | 6  | 8           | 4  | 37     | 34  |
| June .....       | 7        | 5  | 4             | 3  | 9           | 12  | 5           | 4  | 6           | 1  | 4           | 10 | 35     | 35  |
| July .....       | 4        | 6  | 7             | 5  | 9           | 8   | 7           | 6  | 7           | 8  | 7           | 5  | 41     | 38  |
| August .....     | 10       | 5  | 4             | 3  | 8           | 14  | 4           | 3  | 8           | 2  | 9           | 4  | 43     | 31  |
| September .....  | 2        | 7  | 5             | 5  | 9           | 4   | 7           | 2  | 4           | 4  | 5           | 9  | 32     | 31  |
| October .....    | 4        | 4  | 3             | 2  | 10          | 15  | 3           | 6  | 3           | 4  | 5           | 3  | 28     | 34  |
| November .....   | 8        | 6  | 2             | 4  | 11          | 13  | 3           | 2  | 8           | 4  | 7           | 3  | 39     | 32  |
| December .....   | 6        | 4  | 2             | 3  | 8           | 8   | 4           | 3  | 5           | 5  | 6           | 7  | 31     | 30  |
| TOTAL .....      | 68       | 61 | 46            | 44 | 112         | 117 | 49          | 54 | 71          | 52 | 76          | 68 | 422    | 396 |
|                  | 129      |    | 90            |    | 229         |     | 103         |    | 123         |    | 144         |    | 818    |     |
| Population ..... | 7214     |    | 3884          |    | 9738        |     | 5035        |    | 6810        |    | 7237        |    | 39918  |     |
| Birth-rate ..... | 17.8     |    | 23.1          |    | 23.5        |     | 20.4        |    | 18.0        |    | 19.8        |    | 20.4   |     |

TABLE V.

RETURN OF VACCINATION FOR DARWEN.—1905.

| MONTHS.         | Successful Vaccination. | Deaths. | Insusceptible. | Ex-empted. | Post-poned. | Removed out of Town and Traced. | Removed and Cannot Trace. | Un-account'd for. |
|-----------------|-------------------------|---------|----------------|------------|-------------|---------------------------------|---------------------------|-------------------|
| January .....   | 55                      | 4       | 0              | 4          | 0           | 0                               | 0                         | 0                 |
| February .....  | 56                      | 9       | 0              | 0          | 0           | 0                               | 0                         | 0                 |
| March .....     | 72                      | 8       | 0              | 3          | 0           | 0                               | 0                         | 0                 |
| April .....     | 48                      | 2       | 1              | 2          | 1           | 0                               | 2                         | 0                 |
| May .....       | 57                      | 12      | 0              | 0          | 1           | 0                               | 1                         | 0                 |
| June .....      | 57                      | 8       | 0              | 0          | 3           | 0                               | 1                         | 1                 |
| July .....      | 68                      | 4       | 1              | 2          | 1           | 0                               | 2                         | 1                 |
| August .....    | 59                      | 11      | 2              | 0          | 2           | 0                               | 0                         | 0                 |
| September ..... | 54                      | 6       | 0              | 0          | 2           | 0                               | 0                         | 1                 |
| October .....   | 46                      | 4       | 0              | 4          | 3           | 0                               | 0                         | 5                 |
| November .....  | 33                      | 12      | 0              | 1          | 1           | 1                               | 0                         | 23                |
| December .....  | 13                      | 3       | 0              | 1          | 0           | 0                               | 0                         | 44                |
|                 | 618                     | 83      | 4              | 17         | 14          | 1                               | 6                         | 75                |

|                                                                    |       |
|--------------------------------------------------------------------|-------|
| Successfully Vaccinated for Quarter, January, February, March..... | 183   |
| „ „ „ „ April, May, June .....                                     | 162   |
| „ „ „ „ July, August, September .....                              | 181   |
| „ „ „ „ October, November, December...                             | 92    |
|                                                                    | <hr/> |
|                                                                    | 618   |
|                                                                    | <hr/> |

I cannot proceed against any defaulters for non-vaccination until the child attains the age of 6 months.

(Signed) A. H. E. STEPHENSON,

Vaccination Officer, Blackburn Union.

I am reminded of the immense danger to the public which must follow an ever-increasing number of unvaccinated children, and, consequently, of grown-up persons; to me it is like a man insuring his machinery against fire, and not insuring his inflammable stock likewise.

To keep a record of these units of susceptibility is the first step towards completing, as far as possible, a cordon of protection from Small Pox. I have, therefore, got a list of the Names and Addresses of all those who have been granted Exemption Orders from Vaccination since 1899—before that time there were 30 to 40 which cannot be traced—and I have made arrangements with the Clerk to the Borough Bench to let me have the names, &c., of each succeeding batch.

By entering all these in alphabetical order, in book form, we shall be able to keep in touch with them; and, in the event of an outbreak of Small Pox, we shall know the extent and the situation of the most susceptible to this disease, that is, the younger persons who have not been vaccinated. The difficulty will be in keeping trace of them all in the event of removals. In a manufacturing town like Darwen this is a frequent occurrence, and for little or no reason; still, with the assistance of the Rate Collectors and the Parliamentary Registers, I hope to keep a complete indexed list.

**TABLE VI.**

The following Table shows the number of Births and the percentage of these attended by Medical Men during the last eight years—

| Years. | No. of Births. | Attended by Medical Men. |             |
|--------|----------------|--------------------------|-------------|
|        |                | Number                   | Percentage. |
| 1898   | 1131           | 815                      | 72.06       |
| 1899   | 1062           | 653                      | 61.48       |
| 1900   | 980            | 540                      | 55.10       |
| 1901   | 858            | 420                      | 48.95       |
| 1902   | 891            | 401                      | 45.00       |
| 1903   | 941            | 461                      | 48.99       |
| 1904   | 820            | 421                      | 51.34       |
| 1905   | 818            | 411                      | 50.24       |

## Marriages.

The number of Marriages solemnized in Darwen during the year ending December 31st, 1905, was as follows—

|                                       |     |
|---------------------------------------|-----|
| Church of England .....               | 169 |
| Nonconformist Places of Worship ..... | 120 |
| <hr/>                                 |     |
| Total.....                            | 289 |
| <hr/>                                 |     |

This means that 578 people were united in the bonds of wedlock, and is at the rate of 14.4 per 1,000 of the population, as compared with 15.3 per 1,000 in the previous year.

The following Table will give the rates since the year 1882 inclusive—

**TABLE VII.**

| Year.             | Births. |       | Deaths. |       | Marriages. |       |
|-------------------|---------|-------|---------|-------|------------|-------|
|                   | Number. | Rate. | Number. | Rate. | Number.    | Rate. |
| 1882              | 987     | 32.2  | 650     | 21.4  | 490        | 16.0  |
| 1883              | 1057    | 34.4  | 518     | 16.8  | 478        | 15.5  |
| 1884              | 978     | 31.9  | 595     | 18.9  | 444        | 14.1  |
| 1885              | 1015    | 32.1  | 489     | 15.4  | 480        | 15.1  |
| 1886              | 965     | 30.0  | 641     | 19.9  | 540        | 16.7  |
| 1887              | 1000    | 30.8  | 716     | 22.0  | 558        | 16.6  |
| 1888              | 994     | 29.6  | 600     | 17.9  | 616        | 18.2  |
| 1889              | 978     | 28.1  | 544     | 16.0  | 570        | 16.5  |
| 1890              | 1075    | 29.4  | 673     | 18.4  | 586        | 16.0  |
| 1891              | 1115    | 32.3  | 660     | 19.1  | 648        | 18.7  |
| 1892              | 1057    | 30.2  | 641     | 18.3  | 670        | 19.1  |
| 1893              | 955     | 26.1  | 677     | 19.0  | 592        | 16.7  |
| 1894              | 1039    | 28.8  | 542     | 15.0  | 640        | 17.7  |
| 1895              | 1128    | 31.3  | 640     | 17.7  | 676        | 18.7  |
| 1896              | 1032    | 28.1  | 627     | 17.1  | 606        | 18.9  |
| 1897              | 1114    | 29.7  | 651     | 17.3  | 688        | 18.3  |
| 1898              | 1131    | 30.0  | 632     | 16.8  | 700        | 18.6  |
| 1899              | 1062    | 28.0  | 647     | 17.0  | 666        | 17.5  |
| 1900              | 980     | 25.3  | 789     | 20.4  | 532        | 13.7  |
| 1901              | 858     | 22.4  | 620     | 16.2  | 576        | 15.0  |
| 1902              | 891     | 23.0  | 567     | 14.6  | 606        | 15.6  |
| 1903              | 941     | 24.0  | 501     | 12.7  | 612        | 15.6  |
| 1904              | 820     | 20.7  | 606     | 15.2  | 606        | 15.3  |
| 1905              | 818     | 20.4  | 562     | 14.0  | 578        | 14.4  |
| Average 24 years. | 999     | 28.0  | 616     | 17.3  | 593        | 16.6  |

## Notification of Infectious Diseases.

**SMALL POX.**—Instructions were given to the Inspectors to make particular enquiries of the people attending the Open Air Market, as to the towns they come from and the Markets attended by them, with a view of being on the look out for infected goods ; at the time there was Small Pox in the following towns—Bolton, Chorley, Oldham and Bury. Salesmen from these places were under the particular watch of the Inspectors.

During the latter part of January, Dr. Niven, Medical Officer of Health, Manchester, wrote to me giving the name of a man from Darwen who had been in contact with Small Pox in an institution in Manchester. Mr. Marsden (Inspector) at once called at the man's address, thoroughly inspected the house, and kept the occupants under surveillance. On his ascertaining the name of their usual medical attendant, I sent word to him asking him to re-vaccinate the person above referred to ; this was done satisfactorily.

This method of Medical Officers of Health keeping in touch with each other is the means of preventing many an outbreak of Infectious Disease.

During February I received notice from Southampton of the arrival of a steamer conveying troops from India, and on board of which there had occurred several cases of this complaint. Five of the men discharged were on their way home to Darwen, and immediately on their arrival home I visited and thoroughly examined them, and also kept them under my personal supervision during the ordinary period of incubation. Fortunately none of them were affected.

A few weeks later another soldier returned home on board the S.S. "Soudan," on which there had been Small Pox during the voyage, and he was carefully looked after.

At this time I had a letter from the Officer commanding the Discharge Depôt at Gosport, reporting a case of this Disease on board the S.S. "Plassy," from which two Darwen men were discharged. I ascertained the names and addresses and carefully watched both. They remained free of the complaint.

The only case of Small Pox existing in the town during the year was Ellen Sullivan, who was admitted to Stepback on December 20th, 1904, and after making a good recovery was discharged on January 15th, 1905, having been in Hospital 29 days.

The above building was then relinquished as unsuitable for isolation purposes, and steps taken to secure a more suitable site and building. During the year Rough Height Farm was bought, and has undergone the necessary alterations to fit it for the reception of Small Pox Patients. Structurally, it is not a model place, but the rooms have been rendered comfortable, and there is room for further extension without adding to the present buildings, and without any very large expenditure of money.

The site is as good as our Scarlet Fever Hospital ; in fact, it is within reasonable distance of same, yet beyond the scope or reach of infection. It is also handy for the Porter attending to the fires when not in occupation, and which are necessary to warm the place and keep it ready for being used at short notice. The Furniture which was bought for Stepback in emergency has all been put into use at Rough Height, so that only a moderate charge has been laid upon the rates for what is substantially required for a Disease which visits us at very lengthened intervals.

The approach is by a Private Road off the Main Highway.

The Water Supply is more than ample for all purposes, and of an excellent quality. More than this, the acquisition of land to enable the Council to surround the Hospital with a zone of protective country has also improved and increased the Water Supply for Bull Hill Hospital.

The following were reported to me during the year—

|                       |       |
|-----------------------|-------|
| Small Pox .....       | 0     |
| Diphtheria .....      | 29    |
| Erysipelas .....      | 49    |
| Scarlet Fever .....   | 456   |
| Typhoid Fever .....   | 28    |
| Puerperal Fever ..... | 5     |
|                       | <hr/> |
|                       | 567   |

#### CASES REPORTED IN—

|                   | 1897  | 1898  | 1899  | 1900  | 1901  | 1902  | 1903  | 1904  | 1905  |
|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Diphtheria .....  | 2     | 2     | 10    | 186   | 197   | 141   | 21    | 34    | 29    |
| Croup .....       | 3     | 6     | 2     | 4     | 10    | 3     | —     | —     | —     |
| Erysipelas .....  | 56    | 35    | 31    | 27    | 34    | 15    | 17    | 35    | 49    |
| Scarlet Fever ... | 101   | 93    | 400   | 276   | 231   | 137   | 30    | 689   | 456   |
| Typhoid Fever...  | 41    | 43    | 55    | 33    | 21    | 34    | 15    | 20    | 28    |
| Continued Fever   | 1     | 3     | —     | 1     | 3     | 1     | —     | —     | —     |
| Puerperal Fever.  | 12    | 10    | 7     | 4     | 1     | 3     | 2     | 5     | 5     |
| Small Pox .....   | —     | —     | —     | —     | —     | 3     | 27    | 2     | —     |
| Chicken Pox ...   | —     | —     | —     | —     | —     | —     | 32    | —     | —     |
|                   | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> | <hr/> |
|                   | 216   | 192   | 505   | 531   | 497   | 337   | 144   | 785   | 567   |

**DIPHTHERIA AND GROUP.**—There were 29 cases of this complaint, as compared with 34 the previous year. This Disease has gone down since the heavy epidemic we had in 1900, 1901 and 1902, when there were 524 in all, or an average of 175 per annum, and which called forth a special enquiry and report by one of the Board's Medical Officers. During a heavy stress like the one experienced during those three years, it shows the necessity of having ample Hospital accommodation for the perfect isolation of the patients, where better nursing can be obtained than is possible in an artizan's dwelling, and where the close attention to the discharges from the respiratory passages may be effected; such discharges, in the absence of disinfection, being a fertile source of the disease being spread.

It is also very necessary if any effective check is to be made, that all those in charge of the sick and coming in contact with the infection should be themselves protected by an injection of 500 units of the Anti-diphtheria Serum, a stock of which is kept at the Municipal Offices.

**ERYSIPELAS.**—Forty-nine cases were notified during 1905; there were 35 such reported during 1904.

During the year I again called the Committee's attention to the advisability of deleting this from the list of Notifiable Diseases, as little good accrues from its being reported, and substituting Pulmonary Consumption.

**TYPHOID FEVER** was slightly on the increase; its sporadic nature, however, defies detection as to its source. The germs lie in the soil, probably in back yards and back streets, and during dry hot weather these become liberated and find their way into supplies of milk and other kinds of food. Our energies are, therefore, more stringently directed to the cleansing of the back ways, cleaning away of heaps of rubbish which will accumulate in the backs of houses however strict our Inspectors may be. It is my desire when the warmer weather arrives to have all the back parts of the houses frequently swept and cleansed with a plentiful supply of water.

**PUERPERAL FEVER** still remains low although somewhat higher than the year before.

The registered Midwives are getting better into the work, and understanding the routine much more intelligently, so that we shall probably hear less and less of this complaint as the years roll on.

On receipt of a notification I at once send on the particulars to Dr. Sergeant, the Medical Officer of Health to the County, who instructs the Inspector appointed under the Midwives' Act, and she comes over and makes full enquiries into all details, with the result that the person who has attended the case will not go to any more confinements until it is safe for her to do so.

**SCARLET FEVER.**—The number of cases notified during the year was 456, viz., 218 males and 238 females.

The distribution was as follows—

|                               | Central. | West-Central. | North-East. | North-West. | South-East. | South-West. |
|-------------------------------|----------|---------------|-------------|-------------|-------------|-------------|
| Population .....              | 7214     | 3884          | 9738        | 5035        | 6810        | 7237        |
| Number .....                  | 68       | 44            | 82          | 56          | 111         | 95          |
| Deaths .....                  | 5        | 1             | 2           | 6           | 2           | 5           |
| Death-Rate<br>per 1,000 ..... | .69      | .25           | .20         | 1.19        | .29         | .69         |

This Disease showed a very appreciable diminution in the number of persons attacked. It is interesting to note the age period at which children are most susceptible, viz—

| Under 1 year. | 1 to 5 | 5 to 15. | 15 to 25. | 25 to 65. | Total. |
|---------------|--------|----------|-----------|-----------|--------|
| 4.            | 146.   | 274.     | 22.       | 10.       | 456.   |

We can entirely eliminate Infants from our calculation and disregard those above 15 years of age. It would be interesting to analyse the ages still further, in particular from 5 to 15, as it is not probable there will be any

large proportion of the other children attacked ; this is also more important if we are to ascertain the influence which attendance at school is supposed, and rightly so, to have on the spread of infection generally. This brings me to a point which during the year under consideration was brought by me to the notice of the Committee, that is the number of children under 5 years of age which contracted the complaint. The question of a remedy for this great evil has consequently exercised my mind during the whole of the year, and having once restricted the area of infection to the boundary walls of the School-house, I have formulated a scheme for dealing with it directly at these separate points.

First, I have as a preliminary measure given two Lectures to such of the Teachers as cared to attend on "The Signs and Symptoms of Infectious Diseases, and what steps to take to keep them in check." On both occasions the attendance was very good, and the interest shown in the subject sufficient return for my trouble.

I had a large number of Cards printed and prepared sufficient to provide one for each scholar. On these are written the name of scholar, the class from where transferred, family history showing the names of other children who have had Infectious Diseases, name of disease and date of attack. Also the personal history, i.e., the date when the owner of the Card has had one of these complaints. Columns are ruled in which the date of any absence from school takes place, and the reason.

The rationale of all this is as follows—Acting on my instructions, if a Teacher notices a certain child is ill, appearing to have an ordinary cold, running eyes, sneezing, drowsy, hot skin, enlarged glands, or any rash, such a child is at once sent home with a note, giving the reason and permission for the child to return to school at the end of three days if these symptoms have cleared up ; if not, then the child is still kept at home and the house is visited by the School Attendance Officer, who makes full enquiries, getting all the information he can, and reports the same to his office, and, if he thinks necessary, to me. Children will often be sent home for slight ailments, but the absence will be only a short one, and if the case should prove to be an infectious one the danger will be early removed from the other children before infection has had time to spread.

The object of the scheme, therefore, is to remove all children with a suspicion of Infectious Disease about them before it has had time to develop and spread to others, so that any break in the schooling will in many cases be not more than three days, and when more the only course will have been taken which is feasible of preventing the whole school being closed. Further, with the complete records at hand provided by the information on the Cards, the Teachers will easily ascertain the amount of infectious material there is in each class, and as a precautionary measure they may isolate these units either in the school or even send them home to be out of reach of danger. To obtain the best, or even satisfactory results, there must be complete co-operation between the Medical Officer and the Teachers, as in the absence of this the whole arrangement must fail. The only contra-indication to its success is the anxiety of the Teachers to keep up the average attendance. This, with its effect upon the salaries, will, I am afraid, for a time prove a stubborn obstacle.

During the year I have visited all the Schools, and especial attention has been paid to improve ventilation and cleaning. During the holidays, and also whenever any of the Schools have had to be closed, letters have been sent to the Managers giving instructions for this work to be carried out. The increasing number of evening entertainments held in the School-rooms, and generally for the purpose of raising money for church or chapel use, has greatly interfered with efficient cleansing. Another important matter is that when Schools have been closed owing to the prevalence of Infectious Disease, the Sunday Schools are opened as usual, and entertainments carried on, at which there is always a large number of children present, probably spreading infection, for the prevention of which the Day Schools have been closed.

The following Table shows the distribution of cases each year from 5 years to 15—

| YEARS. |    |    |    |    |    |    |    |    |    |    | Total. |
|--------|----|----|----|----|----|----|----|----|----|----|--------|
| 5      | 6  | 7  | 8  | 9  | 10 | 11 | 12 | 13 | 14 | 15 |        |
| 58     | 51 | 39 | 29 | 33 | 27 | 16 | 7  | 6  | 7  | 1  | 274    |

This shows the lessened susceptibility of children the older they grow, and the inference is that if the children under 5 years of age were removed from School, apart from the lessened sickness this would bring about among themselves, many of the foci of infection would be stamped out, and, consequently, the disease would be considerably lessened among the older ones.

I advised my Committee to recommend the Education Committee to restrict the ages of all those attending Elementary Schools to 5 years and over ; the Committee was advised that the Act did not confer upon it power to do this. It is impossible to over-estimate the influence of the close aggregation of young children in the strongly infected atmosphere of a School-room when at the most susceptible age. Many persons fail to grasp the logic of this argument, and continue to assert that it is quite as dangerous for children to mix with each other in the streets as in the Schools. Certainly there is considerable danger to the children to be thus exposed to inclement atmospheric influences when suffering from the disease in a mild form or during convalescence, but the danger is in setting up complications and not in spreading infection. All this applies to Measles and Whooping Cough as much as to Scarlet Fever.

## Deaths.

Return of the number of Infectious Diseases reported to the Medical Officer of Health during the year 1905, and of the deaths from the diseases notified—

|                                      | Cases<br>Notified. | Deaths<br>Registered. |
|--------------------------------------|--------------------|-----------------------|
| Scarlet Fever .....                  | 456                | 21                    |
| Diphtheria and Membraneous Croup ... | 29                 | 3                     |
| Typhoid Fever .....                  | 28                 | 3                     |
| Puerperal Fever .....                | 5                  | 3                     |
| Erysipelas .....                     | 49                 | 1                     |
|                                      | <hr/> 567          | <hr/> 31              |

Deaths—Measles, 4 ; Diarrhoea, 9 ; Scarlet Fever—there were 456 cases notified, and 21 deaths, being at the rate of 4.6 per cent. of those attacked.

**SCARLET FEVER.**—The percentage of deaths from this extremely common and infectious disease was again low, although somewhat higher than the previous year.

The time is now opportune for some definite steps to be taken in solving what has become a vexed question, viz.—“Are Isolation Hospitals of practical value commensurate with the heavy cost to the ratepayers?”

The question must be judged solely from a public health standpoint, and not from the individual patients. I am frequently asked by Medical Men to take a patient, who is suffering from Scarlet Fever, solely on the grounds that the people are poor, or that the mother is unused to nursing the sick, and, consequently, the patient will be neglected, and this when the patient is the only child of the family. An Isolation Hospital is looked upon as the haven of all infectious cases, whether such are a menace to the community or not. With ordinary care an infectious case can, and should be, as easily treated in a cottage home as in a hospital. Given a bedroom for isolation purposes, an old washable overall to be put on before entering the room and taken off on leaving, which can be kept hanging on a hook just inside the room, plenty of hot water to put clothing, bedding and crockery preparatory to removing same downstairs through the living part, and a cap or bonnet, such as are used by women when bathing, forms a complete outfit. Unfortunately, the period of convalescence is a long one, and this frightens the people, besides proving a very expensive stay at home. Should the case assume any complications, such as a serious mischief in the throat, nose or ears, the services of a trained nurse become a necessity; the ordinary person is incapable of dealing with the discharges from these sources. The majority of cases are, however, of the ordinary type, mild but infectious, and the question is—Does it pay to remove all these from their homes? If we take the usual calculation of having one bed for every thousand of the population, then, from an economic standpoint, it does not; the cost in proportion to the check on the spread of infection is too heavy. Although the saving in lives in the serious cases is large, this is nothing to do with my arguments at present.

I maintain that from a sanitary point of view a large hospital is a white elephant if an epidemic cannot be stayed in its course at the beginning, at its inception, then the greater hold it has on the community and the greater the difficulty of checking it; in fact, it cannot be stopped until it has run its course through the susceptible juvenile population. It is like a prairie fire: You must put it out before it has got a hold or else it will burn itself out; you must check your epidemic in its infancy or not at all. So the apothegm occurs to me, “If a small hospital cannot a large will not.”

The greatest factor in the formation of epidemics is undoubtedly the carelessness of the people, parents and otherwise. The frequency with which one hears the expression, “Oh! every child has to have it (the

particular complaint going), so it might as well have it soon as late," accounts for much carelessness ; also the large number of mothers going to the mill causes them to leave the children at home the whole day, with the result that "When the cat's away the mice will play," so those convalescent ones, whilst peeling, get out and play with other children in the street. Mild cases are undetected in the early stage ; in fact, until the skin is seen to be coming off, when it is considered too late to send for a doctor, so the case has to be smuggled through, as it were ; the milder the epidemic and the better chance of spreading through these undetected cases.

There is another point about Isolation Hospitals which has not been made as prominent as its seriousness deserves, and that is the danger of re-infection where wards are filled with patients for long periods, without the opportunity of thoroughly cleansing, ventilating and disinfecting them. This is difficult in a large hospital unless built much larger than for actual requirements. The aggregation of even mild cases increases and concentrates the infection to such an extent, that the patients are surrounded with an atmosphere of infection so strong that it is easy to see a mild case taking on more severe symptoms from this. I cannot say that I have ever had such a one that I could trace to this source, but I have had cases in hospital in which the progress has appeared to have been delayed by something, and, in fact, the following experience will bear this out more or less. We had a child in for several months lying in a bed in the corner of the ward, she had no symptoms beyond a temperature so prolonged that my suspicions were aroused, and I had her removed to another ward which had just been fumigated. After this she made a good recovery. The point I wish to make out is, that where so many persons are congregated, suffering from the same infectious diseases, but more or less in different forms and at different stages, the micro-organisms must accumulate to such an extent as to become a source of re-infection, prolonging the period of convalescence, especially where such complications as disease of the middle ear, &c., has set in, the difficulty of reaching the seat of some of these discharges renders the task of making them aseptic a very heavy one, which does not obtain when the disease is not caused or accompanied by a separate infective microbe. This indicates, to some extent, where the mischief lies, and why Infectious Diseases Hospitals should be built on modern lines, without exposed beams, corners, crevices, or any place upon which dust can be accommodated. All corners should be rounded off ; the ceiling, walls and floors of smooth, hard and impervious material ; the heating should be uniform, ventilation perfect, and suitable receiving and discharging wards, in which doubtful cases may be quarantined until the diagnosis is confirmed, and where the patient can be bathed and dressed in rooms "en suite," so as to avoid all possibility of picking up the germs again.

Before being discharged from Bull Hill all the patients have their ears and noses freely syringed with a solution of Boric Acid, and the following letter is sent to each home :—

### SCARLET FEVER AND RETURN CASES.

Dear Sir or Madam,

Your child is expected to return home from the Fever Hospital very shortly. As far as the Officials of the Hospital are able they will see that no patient is discharged who is not free from infection, but, unfortunately, there are no means of making sure that anyone is absolutely free from the infection of Scarlet Fever, and it sometimes happens that persons continue to be infectious for several weeks after they appear to be quite well in themselves. Usually those who retain infection for long periods have a weak throat, a running at the nose, a soreness of the nose, or a discharge from the ear.

You are therefore requested to take the following precautions on the return of your child :—

- (1) The child should sleep in a bed separate from the other children for a fortnight, or until the discharge has ceased.
- (2) He should not return to school for a fortnight, or as long as there is any discharge from ear or nose.
- (3) If there is any discharge word should be sent to your own doctor.
- (4) If your child has a running nose or ears, and you have not a Medical Man in attendance, if you will apply at the Health Office, Market House, you will have the loan of a syringe and a bottle of solution, with which you can syringe out the above passages and lessen the danger of infection.

Yours truly,

F. G. HAWORTH,

Medical Officer of Health.

**DIPHTHERIA.**—The low death-rate is partly to be accounted for by the more general adoption of the Serum Treatment, and the fact that this occurred at the tail end of an epidemic, when the virus of the disease had become considerably attenuated.

**TYPHOID FEVER.**—Twenty-eight notified, with 3 deaths; also shows a very low rate of mortality.

**PUERPERAL FEVER.**—Five notified, 3 of which were fatal, or 60 per cent. of those attacked. Shows exactly the same rate as the previous year.

**ERYSIPELAS.**—Forty-nine notified, or 14 more than in the previous year, one case proving fatal; giving a death-rate of 2 per cent. of those attacked.

**INQUESTS.**—The Coroner held 26 enquiries.

**CONSUMPTION.**—Thirty-six deaths occurred, giving a rate of 0.90 per 1,000 of the population. This complaint levies a very heavy toll every year, and, consequently, some time ago public interest was aroused in the direction of providing sanatoria for its special treatment. So far this shows an admirable spirit, but it appears to me to begin at the wrong end. Sanitation directs all its energies towards prevention instead of cure, and the more we can educate the masses in recognising the infectious nature of the disease, and the necessity for respecting our neighbours as well as ourselves, and the better for the community at large. I have on previous occasions taken advantage of the publicity of these Annual Reports to warn people against the dangers of indiscriminate spitting; this offence, apart from its disgusting nature, should be penalised and strictly enforced. Any observant person, passing along our streets at any time of the day, would be struck by the absolute want of decency which characterises old and young; the terrible amount of infectious material of such a deadly character which must be liberated on dry days is appalling. I can only persist in drawing public attention to this disgraceful state of things, and to recommend the Committee to issue notices prohibiting its practice in public and private. Our public-houses must be hot-beds of peril, especially when one considers the shattered constitutions, as the result of alcoholism, which are exposed to the extra danger. I have frequently seen people on the tops of tram-cars heedlessly expectorating over the side, careless of who may be underneath waiting to step on board.

Now that we are improving the atmosphere of the town by strict attention to the chimneys of mills and workshops, and when we are probably within appreciable distance of preventing the emission of smoke of any kind, the time is quite opportune for advocating the wisdom of open windows and shut doors. Perhaps some enterprising individual will form "An Association for Fresh Air and Open Windows."

**ZYMOTIC DEATH-RATE.**—1.00 per 1,000 of population.

The following Schools were closed during the year, owing to the prevalence of infectious diseases—

Culvert ..... April 5th, for three weeks.

St. Paul's ..... November 5th, for three weeks.

**TABLE VIII.**

| Population as per Census enumerated. | Estimated Population to middle of year. | Births. | Deaths from all causes. | Deaths under 1 year. | Deaths 1 to 5. | Deaths 5 to 15. | Deaths 15 to 25. | Deaths 25 to 60. | Deaths 60 years and upwards. |
|--------------------------------------|-----------------------------------------|---------|-------------------------|----------------------|----------------|-----------------|------------------|------------------|------------------------------|
|                                      | 1886                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 32,185                                  | 965     | 641                     | 187                  | 154            | 28              | 29               | 135              | 108                          |
|                                      | 1887                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 32,491                                  | 1000    | 716                     | 188                  | 139            | 60              | 35               | 174              | 120                          |
|                                      | 1888                                    |         |                         |                      |                |                 |                  |                  |                              |
| 1881                                 | 33,500                                  | 994     | 600                     | 154                  | 113            | 32              | 33               | 145              | 118                          |
|                                      | 1889                                    |         |                         |                      |                |                 |                  |                  |                              |
| 29,747                               | 34,500                                  | 972     | 544                     | 149                  | 90             | 16              | 31               | 161              | 107                          |
|                                      | 1890                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 36,500                                  | 1075    | 673                     | 184                  | 68             | 28              | 30               | 196              | 167                          |
|                                      | 1891                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 34,500                                  | 1115    | 660                     | 168                  | 115            | 32              | 26               | 193              | 126                          |
|                                      | 1892                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 35,500                                  | 1057    | 641                     | 177                  | 85             | 35              | 64               | 175              | 105                          |
|                                      | 1893                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 35,600                                  | 955     | 677                     | 184                  | 101            | 40              | 44               | 167              | 141                          |
|                                      | 1894                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 36,000                                  | 1039    | 542                     | 130                  | 67             | 17              | 46               | 174              | 108                          |
| 1891                                 | 1895                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 36,000                                  | 1128    | 640                     | 179                  | 92             | 16              | 43               | 186              | 124                          |
| 34,192                               | 1896                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 36,652                                  | 1032    | 627                     | 187                  | 102            | 17              | 26               | 163              | 132                          |
|                                      | 1897                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 37,500                                  | 1114    | 651                     | 182                  | 87             | 19              | 33               | 195              | 135                          |
|                                      | 1898                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 37,500                                  | 1131    | 632                     | 199                  | 79             | 22              | 27               | 174              | 131                          |
|                                      | 1899                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 37,900                                  | 1062    | 647                     | 200                  | 90             | 23              | 26               | 189              | 119                          |
|                                      | 1900                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 38,600                                  | 980     | 789                     | 188                  | 144            | 45              | 33               | 196              | 183                          |
|                                      | 1901                                    |         |                         |                      |                |                 |                  |                  |                              |
| 1901                                 | 38,212                                  | 858     | 620                     | 145                  | 100            | 33              | 20               | 166              | 156                          |
|                                      | 1902                                    |         |                         |                      |                |                 |                  |                  |                              |
| 38,212                               | 38,712                                  | 891     | 569                     | 135                  | 58             | 32              | 27               | 174              | 143                          |
|                                      | 1903                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 39,114                                  | 941     | 501                     | 117                  | 51             | 17              | 18               | 151              | 147                          |
|                                      | 1904                                    |         |                         |                      |                |                 |                  |                  |                              |
|                                      | 39,516                                  | 820     | 606                     | 123                  | 110            | 35              | 29               | 160              | 149                          |
|                                      | 1905                                    |         |                         |                      |                |                 |                  | 25 to 65.        | 65 and upwards.              |
|                                      | 39,918                                  | 818     | 562                     | 118                  | 61             | 31              | 30               | 216              | 106                          |

**TABLE IX.**

Death-rates per 1,000 of the Population in the various Wards of the Borough—

| WARDS... {      | Central. | West-Central. | North-East. | North-West. | South-East. | South-West. | Death Rate per Month. |
|-----------------|----------|---------------|-------------|-------------|-------------|-------------|-----------------------|
| POPULATION...   | 7214     | 3884          | 9738        | 5035        | 6810        | 7237        |                       |
| 1905            |          |               |             |             |             |             |                       |
| January .....   | 13.30    | 15.44         | 13.55       | 9.53        | 10.57       | 13.26       | 12.6                  |
| February .....  | 9.98     | 9.32          | 12.32       | 33.36       | 22.90       | 6.63        | 15.0                  |
| March .....     | 18.29    | 15.44         | 19.71       | 14.29       | 24.66       | 9.94        | 17.4                  |
| April .....     | 14.97    | 24.71         | 14.78       | 14.29       | 19.38       | 9.94        | 15.6                  |
| May .....       | 13.30    | 12.35         | 20.94       | 14.29       | 12.33       | 19.89       | 16.2                  |
| June .....      | 9.98     | 6.17          | 17.25       | 16.68       | 7.04        | 16.58       | 12.9                  |
| July .....      | 8.31     | 9.26          | 11.09       | 9.53        | 8.81        | 4.97        | 8.7                   |
| August .....    | 16.63    | 12.35         | 11.09       | 16.68       | 8.81        | 8.29        | 12.0                  |
| September ..... | 9.98     | 18.53         | 8.62        | 7.14        | 15.85       | 13.26       | 11.7                  |
| October .....   | 8.31     | 21.62         | 11.09       | 23.83       | 14.09       | 16.58       | 14.7                  |
| November .....  | 13.30    | 6.17          | 7.39        | 11.91       | 21.14       | 13.26       | 12.3                  |
| December .....  | 23.28    | 18.53         | 11.09       | 28.59       | 19.38       | 21.55       | 19.5                  |
| Average ...     | 13.30    | 14.15         | 13.24       | 16.67       | 15.41       | 12.84       | 14.0                  |

**DEATHS FROM CONSUMPTION.**

|                                  |    |
|----------------------------------|----|
| Tabes Mesenterica .....          | 1  |
| Tubercular Meningitis .....      | 9  |
| Tubercular Peritonitis .....     | 1  |
| Phthisis Pulmonalis .....        | 36 |
| Tuberculosis of Intestines ..... | 1  |

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## DEATHS OF PERSONS 65 YEARS AND UPWARDS.

|                                |     |
|--------------------------------|-----|
| Senile Decay .....             | 18  |
| Bronchitis and Pneumonia ..... | 23  |
| Heart Disease .....            | 14  |
| Apoplexy .....                 | 11  |
| Injuries .....                 | 3   |
| Phthisis .....                 | 3   |
| All other causes .....         | 34  |
|                                | 106 |

**TABLE X.—Bronchitis.**

Deaths at the different age periods during the last thirteen years.

|           | Under<br>1 year. | 1 to 5. | 5 to 15. | 15 to 25. | 25 to 60. | 60 and<br>upwards. | TOTAL. |
|-----------|------------------|---------|----------|-----------|-----------|--------------------|--------|
| 1893..... | 41               | 24      | 3        | ...       | 12        | 29                 | 109    |
| 1894..... | 27               | 20      | ...      | ...       | 7         | 17                 | 71     |
| 1895..... | 24               | 13      | ...      | ...       | 21        | 26                 | 84     |
| 1896..... | 36               | 28      | ...      | ...       | 10        | 20                 | 94     |
| 1897..... | 25               | 13      | ...      | ...       | 22        | 26                 | 86     |
| 1898..... | 22               | 12      | ...      | ..        | 10        | 21                 | 65     |
| 1899..... | 29               | 12      | ..       | ...       | 16        | 16                 | 73     |
| 1900..... | 18               | 7       | ...      | ...       | 20        | 36                 | 81     |
| 1901..... | 16               | 10      | ...      | ...       | 11        | 30                 | 67     |
| 1902..... | 19               | 8       | 1        | ...       | 7         | 22                 | 57     |
| 1903..... | 17               | 8       | ...      | ...       | 4         | 20                 | 49     |
| 1904..... | 8                | 10      | ...      | ...       | 11        | 19                 | 48     |
|           |                  |         |          |           | 25 to 65. | 65 and<br>upwards. |        |
| 1905..... | 15               | 5       | ...      | ...       | 12        | 19                 | 51     |
|           | 297              | 170     | 4        | ...       | 163       | 301                | 935    |

**TABLE XI.—Pneumonia.**

Deaths at the different age periods during the last thirteen years.

|           | Under<br>1 year. | 1 to 5. | 5 to 15. | 15 to 25. | 25 to 60. | 60 and<br>upwards. | TOTAL. |
|-----------|------------------|---------|----------|-----------|-----------|--------------------|--------|
| 1893..... | 8                | 8       | 1        | 1         | 24        | 8                  | 50     |
| 1894..... | 5                | 4       | 1        | ...       | 19        | 4                  | 33     |
| 1895..... | 9                | 4       | 1        | 1         | 15        | 4                  | 34     |
| 1896..... | 9                | 9       | 2        | ...       | 17        | 3                  | 40     |
| 1897..... | 14               | 12      | 2        | 2         | 31        | 10                 | 71     |
| 1898..... | 11               | 13      | 3        | ...       | 18        | 8                  | 53     |
| 1899..... | 12               | 14      | 2        | ...       | 21        | 8                  | 57     |
| 1900..... | 20               | 28      | 3        | 1         | 25        | 11                 | 88     |
| 1901..... | 19               | 14      | 1        | ...       | 15        | 11                 | 60     |
| 1902..... | 16               | 12      | 2        | 2         | 28        | 4                  | 64     |
| 1903..... | 8                | 8       | 1        | ...       | 18        | 6                  | 41     |
| 1904..... | 13               | 19      | 1        | ...       | 15        | 5                  | 53     |
|           |                  |         |          |           | 25 to 65. | 65 and<br>upwards. |        |
| 1905..... | 12               | 12      | 6        | ...       | 13        | 4                  | 47     |
|           | 156              | 157     | 26       | 7         | 259       | 86                 | 691    |

**TABLE XII.—Phthisis.**

Deaths at the different age periods during the last thirteen years.

|           | Under<br>1 year. | 1 to 5. | 5 to 15. | 15 to 25. | 25 to 60. | 60 and<br>upwards. | TOTAL. |
|-----------|------------------|---------|----------|-----------|-----------|--------------------|--------|
| 1893..... | ...              | ...     | ...      | ...       | 35        | 4                  | 39     |
| 1894..... | ...              | 1       | 1        | 1         | 42        | ...                | 45     |
| 1895..... | ...              | ...     | ...      | ...       | 34        | 4                  | 38     |
| 1896..... | 1                | 1       | ...      | ...       | 25        | 2                  | 29     |
| 1897..... | ...              | ...     | ...      | ...       | 26        | 1                  | 27     |
| 1898..... | ...              | ...     | ...      | ...       | 26        | 2                  | 28     |
| 1899..... | ...              | ...     | 1        | 2         | 26        | 2                  | 31     |
| 1900..... | 1                | ...     | 1        | 1         | 25        | 2                  | 30     |
| 1901..... | ...              | ...     | 1        | 2         | 23        | 3                  | 29     |
| 1902..... | ...              | 2       | ...      | ...       | 27        | 2                  | 31     |
| 1903..... | ...              | ...     | 1        | 1         | 18        | 2                  | 22     |
| 1904..... | 1                | 3       | 3        | ...       | 28        | 3                  | 38     |
|           |                  |         |          |           | 25 to 65. | 65 and<br>upwards. |        |
| 1905..... | ...              | 1       | ...      | 8         | 24        | 3                  | 36     |
|           | 3                | 8       | 8        | 15        | 359       | 30                 | 423    |

TABLE XIII.

NOTIFICATION OF INFECTIOUS DISEASES IN EACH WARD, AND FOR  
EACH MONTH OF THE YEAR 1905.

| 1905.<br>MONTHS. | CENTRAL        |                |             |                  | WEST-CENTRAL |                |                |             | NORTH-EAST.      |             |                |                | NORTH-WEST. |                  |             |                | SOUTH-EAST.    |             |                  |             | SOUTH-WEST.    |                |             |                  | BOROUGH     |                |                |             | Total. |                  |  |
|------------------|----------------|----------------|-------------|------------------|--------------|----------------|----------------|-------------|------------------|-------------|----------------|----------------|-------------|------------------|-------------|----------------|----------------|-------------|------------------|-------------|----------------|----------------|-------------|------------------|-------------|----------------|----------------|-------------|--------|------------------|--|
|                  | Scarlet Fever. | Typhoid Fever. | Erysipelas. | Puerperal Fever. | Diphtheria.  | Scarlet Fever. | Typhoid Fever. | Erysipelas. | Puerperal Fever. | Diphtheria. | Scarlet Fever. | Typhoid Fever. | Erysipelas. | Puerperal Fever. | Diphtheria. | Scarlet Fever. | Typhoid Fever. | Erysipelas. | Puerperal Fever. | Diphtheria. | Scarlet Fever. | Typhoid Fever. | Erysipelas. | Puerperal Fever. | Diphtheria. | Scarlet Fever. | Typhoid Fever. | Erysipelas. |        | Puerperal Fever. |  |
| January .....    | 12             | 1              | 10          | 1                | 20           | 7              | 2              | 1           | 1                | 1           | 8              | 4              | 18          | 2                | 75          | 9              | 84             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| February .....   | 2              | 1              | 4           | 9                | 110          | 1              | 1              | 1           | 1                | 1           | 6              | 2              | 1           | 3                | 34          | 2              | 47             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| March .....      | 9              | 4              | 2           | 7                | 2            | 7              | 1              | 2           | 1                | 2           | 24             | 1              | 19          | 2                | 70          | 5              | 87             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| April .....      | 17             | 1              | 2           | 9                | 1            | 6              | 1              | 1           | 1                | 1           | 7              | 1              | 14          | 1                | 59          | 1              | 68             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| May .....        | 5              | 2              | 3           | 5                | 2            | 2              | 1              | 1           | 1                | 1           | 13             | 1              | 17          | 1                | 45          | 1              | 50             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| June .....       | 4              | 1              | 6           | 4                | 1            | 1              | 1              | 1           | 1                | 1           | 113            | 1              | 1           | 1                | 29          | 2              | 34             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| July .....       | 1              | 2              | 2           | 1                | 6            | 6              | 1              | 3           | 1                | 8           | 5              | 1              | 13          | 2                | 35          | 4              | 42             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| August .....     | 4              | 1              | 2           | 9                | 2            | 2              | 1              | 2           | 2                | 1           | 8              | 1              | 2           | 2                | 22          | 2              | 28             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| September .....  | 2              | 1              | 1           | 2                | 1            | 1              | 1              | 1           | 1                | 1           | 8              | 1              | 1           | 1                | 13          | 1              | 17             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| October .....    | 4              | 1              | 1           | 1                | 1            | 6              | 1              | 3           | 1                | 7           | 2              | 1              | 2           | 1                | 21          | 5              | 34             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| November .....   | 5              | 1              | 3           | 7                | 1            | 3              | 2              | 3           | 1                | 9           | 1              | 1              | 2           | 2                | 29          | 4              | 42             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| December .....   | 4              | 1              | 3           | 3                | 1            | 7              | 1              | 2           | 1                | 3           | 2              | 3              | 4           | 1                | 24          | 1              | 34             |             |                  |             |                |                |             |                  |             |                |                |             |        |                  |  |
| TOTALS .....     | 68             | 312            | 544         | 1                | 182          | 13             | 12             | 1           | 9                | 56          | 3              | 4              | 1           | 3                | 410         | 6              | 195            | 4           | 8                | 5           | 1              | 456            | 28          | 49               | 29          | 5              | 567            |             |        |                  |  |

TABLE XIV.

| TOWNS.                           | SMALLPOX.    |                     | SCARLET<br>FEVER. |                     | DIPHThERIA.  |                     | MEMBRA-<br>NEOUS<br>CROUP. |                      |
|----------------------------------|--------------|---------------------|-------------------|---------------------|--------------|---------------------|----------------------------|----------------------|
|                                  | Num-<br>ber. | Rate<br>per<br>1000 | Num-<br>ber.      | Rate<br>per<br>1000 | Num-<br>ber. | Rate<br>per<br>1000 | Num-<br>ber.               | Rate<br>per<br>1000. |
| 1. Hyde .....                    | ...          | ...                 | 144               | 4.39                | 17           | .51                 | 6                          | .18                  |
| 2. Stockport .....               | 1            | .01                 | 201               | 2.16                | 36           | .38                 | 1                          | .01                  |
| 3. Macclesfield .....            | 6            | .17                 | 101               | 2.91                | 10           | .28                 | 2                          | .05                  |
| 4. Crewe .....                   | ...          | ...                 | 147               | 3.49                | 42           | .99                 | 5                          | .11                  |
| 5. Chester .....                 | ...          | ...                 | 113               | 2.94                | 43           | 1.12                | 3                          | .07                  |
| 6. Birkenhead .....              | 2            | .01                 | 874               | 7.87                | 138          | 1.24                | 15                         | .13                  |
| 7. Wallasey .....                | ...          | ...                 | 346               | 6.45                | 64           | 1.19                | 3                          | .05                  |
| 8. Bootle .....                  | ...          | ...                 | 285               | 4.86                | 76           | 1.29                | 2                          | .03                  |
| 9. Liverpool .....               | 10           | .01                 | 4306              | 6.13                | 994          | 1.41                | 28                         | .03                  |
| 10. Waterloo-with-Seaforth ..... | ...          | ...                 | 67                | 2.90                | 13           | .56                 | ...                        | ...                  |
| 11. St. Helens .....             | 1            | .01                 | 268               | 3.17                | 176          | 2.08                | 6                          | .07                  |
| 12. Widnes .....                 | ...          | ...                 | 80                | 2.79                | 26           | .90                 | 3                          | .10                  |
| 13. Southport .....              | ...          | ...                 | 248               | 5.15                | 31           | .64                 | ...                        | ...                  |
| 14. Ince-in-Makerfield .....     | 1            | .04                 | 105               | 4.93                | 12           | .56                 | ...                        | ...                  |
| 15. Wigan .....                  | 3            | .03                 | 323               | 3.91                | 49           | .58                 | ...                        | ...                  |
| 16. Warrington .....             | 1            | .01                 | 200               | 3.11                | 20           | .31                 | 5                          | .07                  |
| 17. Leigh .....                  | ...          | ...                 | 418               | 10.44               | 22           | .54                 | 4                          | .09                  |
| 18. Bolton .....                 | 2            | .01                 | 291               | 1.72                | 100          | .59                 | 3                          | .01                  |
| 19. Bury .....                   | 33           | .56                 | 198               | 3.41                | 52           | .89                 | 3                          | .05                  |
| 20. Heywood .....                | 32           | 1.25                | 194               | 7.62                | 45           | 1.76                | 3                          | .11                  |
| 21. Radcliffe .....              | ...          | ...                 | 69                | 2.71                | 11           | .43                 | ...                        | ...                  |
| 22. Eccles .....                 | ...          | ...                 | 135               | 3.92                | 30           | .87                 | ...                        | ...                  |
| 23. Stretford .....              | 1            | .03                 | 125               | 4.10                | 22           | .72                 | 1                          | .03                  |
| 24. Swinton and Pendlebury ..... | 1            | .03                 | 85                | 3.14                | 19           | .70                 | 4                          | .14                  |
| 25. Gorton .....                 | 2            | .07                 | 96                | 3.61                | 22           | .82                 | 5                          | .18                  |
| 26. Manchester .....             | 6            | .00                 | 2117              | 3.48                | 598          | .98                 | 31                         | .05                  |
| 27. Salford .....                | 3            | .01                 | 962               | 4.35                | 347          | 1.57                | 17                         | .07                  |
| 28. Ashton-under-Lyne .....      | 40           | .91                 | 162               | 3.69                | 11           | .25                 | ...                        | ...                  |
| 29. Stalybridge .....            | 11           | .39                 | 81                | 2.92                | 4            | .14                 | 6                          | .21                  |
| 30. Chadderton .....             | 41           | 1.64                | 209               | 8.39                | 21           | .84                 | ...                        | ...                  |
| 31. Middleton .....              | 14           | .55                 | 71                | 2.81                | 9            | .35                 | 1                          | .03                  |
| 32. Oldham .....                 | 276          | 2.01                | 970               | 7.06                | 98           | .71                 | ...                        | ...                  |
| 33. Rochdale .....               | 2            | .02                 | 479               | 5.76                | 53           | .63                 | ...                        | ...                  |
| 34. Accrington .....             | 35           | .81                 | 84                | 1.94                | 16           | .37                 | 4                          | .09                  |
| 35. Haslingden .....             | ...          | ...                 | 91                | 4.90                | 14           | .75                 | 1                          | .05                  |
| 36. Rawtenstall .....            | ...          | ...                 | 65                | 2.09                | 7            | .22                 | 1                          | .03                  |
| 37. Burnley .....                | 81           | .83                 | 332               | 3.42                | 64           | .65                 | 3                          | .03                  |
| 38. Colne .....                  | 1            | .04                 | 36                | 1.56                | 1            | .04                 | 1                          | .04                  |
| 39. Nelson .....                 | 13           | .39                 | 187               | 5.69                | 43           | 1.31                | ...                        | ...                  |
| 40. Blackburn .....              | 4            | .03                 | 1578              | 12.21               | 151          | 1.16                | 6                          | .04                  |
| 41. Chorley .....                | ...          | ...                 | 52                | 1.93                | 7            | .26                 | 1                          | .03                  |
| 42. Preston .....                | 80           | .70                 | 228               | 2.01                | 87           | .76                 | 3                          | .02                  |
| 43. Blackpool .....              | 2            | .04                 | 198               | 4.18                | 49           | 1.03                | 1                          | .02                  |
| 44. Fleetwood .....              | ...          | ...                 | 27                | 2.23                | 8            | .66                 | ...                        | ...                  |
| 45. Lancaster .....              | 3            | .07                 | 370               | 9.17                | 24           | .59                 | ...                        | ...                  |
| 46. Barrow-in-Furness .....      | ...          | ...                 | 306               | 5.31                | 32           | .55                 | 5                          | .08                  |
| 47. DARWEN .....                 | ...          | ...                 | 456               | 11.42               | 29           | .72                 | ...                        | ...                  |

TABLE XIV.

| Number of Town. | FEVERS.  |                |          |                |            |                |            |                |            |                | CHOLERA. |               | ERYSIPELAS. |               |
|-----------------|----------|----------------|----------|----------------|------------|----------------|------------|----------------|------------|----------------|----------|---------------|-------------|---------------|
|                 | TYPHUS.  |                | TYPHOID. |                | CONTINUED. |                | RELAPSING. |                | PUERPERAL. |                |          |               |             |               |
|                 | Num-ber. | Rate per 1000. | Num-ber. | Rate per 1000. | Num-ber.   | Rate per 1000. | Num-ber.   | Rate per 1000. | Num-ber.   | Rate per 1000. | Num-ber. | Rate per 1000 | Num-ber.    | Rate per 1000 |
| 1               | ...      | ...            | 46       | 1.40           | ...        | ...            | ...        | ...            | 3          | .09            | ...      | ...           | 45          | 1.36          |
| 2               | ...      | ...            | 37       | .39            | 1          | .01            | ...        | ...            | 8          | .08            | ...      | ...           | 57          | .61           |
| 3               | ...      | ...            | 13       | .37            | ...        | ...            | ...        | ...            | 4          | .11            | ...      | ...           | 36          | 1.03          |
| 4               | ...      | ...            | 10       | .23            | ...        | ...            | ...        | ...            | 10         | .23            | ...      | ...           | 31          | .73           |
| 5               | ...      | ...            | 17       | .44            | ...        | ...            | ...        | ...            | 1          | .02            | ...      | ...           | 20          | .52           |
| 6               | ...      | ...            | 63       | .56            | 2          | .01            | ...        | ...            | 6          | .05            | ...      | ...           | 64          | .57           |
| 7               | ...      | ...            | 58       | 1.08           | ...        | ...            | ...        | ...            | 6          | .11            | ...      | ...           | 53          | .98           |
| 8               | ...      | ...            | 27       | .46            | ...        | ...            | ...        | ...            | ...        | ...            | ...      | ...           | 32          | .54           |
| 9               | 97       | .13            | 325      | .46            | 9          | .01            | 1          | .00            | 67         | .09            | ...      | ...           | 1124        | 1.6           |
| 10              | ...      | ...            | 12       | .51            | ...        | ...            | ...        | ...            | 1          | .04            | ...      | ...           | 23          | .99           |
| 11              | ...      | ...            | 37       | .43            | ...        | ...            | ...        | ...            | 11         | .13            | ...      | ...           | 107         | 1.26          |
| 12              | ...      | ...            | 72       | 2.51           | ...        | ...            | 1          | .03            | 3          | .10            | ...      | ...           | 11          | .38           |
| 13              | ...      | ...            | 8        | .16            | 3          | .06            | ...        | ...            | 2          | .04            | ...      | ...           | 22          | .45           |
| 14              | ...      | ...            | 32       | 1.50           | ...        | ...            | ...        | ...            | 4          | .18            | ...      | ...           | 31          | 1.45          |
| 15              | ...      | ...            | 134      | 1.62           | ...        | ...            | ...        | ...            | 16         | .19            | ...      | ...           | 92          | 1.11          |
| 16              | ...      | ...            | 15       | .23            | ...        | ...            | ...        | ...            | 15         | .23            | ...      | ...           | 62          | .96           |
| 17              | ...      | ...            | 37       | .92            | 1          | .02            | ...        | ...            | 3          | .07            | ...      | ...           | 37          | .92           |
| 18              | ...      | ...            | 164      | .97            | 1          | .00            | ...        | ...            | 5          | .02            | ...      | ...           | 78          | .46           |
| 19              | ...      | ...            | 32       | .55            | 3          | .05            | ...        | ...            | 4          | .06            | ...      | ...           | 46          | .79           |
| 20              | ...      | ...            | 5        | .19            | ...        | ...            | ...        | ...            | 2          | .07            | ...      | ...           | 29          | 1.13          |
| 21              | ...      | ...            | 19       | .74            | ...        | ...            | ...        | ...            | 2          | .07            | ...      | ...           | 36          | 1.41          |
| 22              | ...      | ...            | 17       | .49            | ...        | ...            | ...        | ...            | 2          | .05            | ...      | ...           | 27          | .78           |
| 23              | ...      | ...            | 14       | .45            | ...        | ...            | ...        | ...            | 2          | .06            | ...      | ...           | 20          | .65           |
| 24              | ...      | ...            | 15       | .55            | ...        | ...            | ...        | ...            | ...        | ...            | ...      | ...           | 39          | 1.44          |
| 25              | ...      | ...            | 103      | 3.87           | ...        | ...            | ...        | ...            | 4          | .15            | ...      | ...           | 23          | .86           |
| 26              | ...      | ...            | 373      | .61            | ...        | ...            | ...        | ...            | 78         | .12            | ...      | ...           | 359         | .59           |
| 27              | ...      | ...            | 143      | .64            | 8          | .03            | ...        | ...            | 25         | .11            | ...      | ...           | 177         | .80           |
| 28              | ...      | ...            | 30       | .68            | ...        | ...            | ...        | ...            | 3          | .06            | ...      | ...           | 17          | .33           |
| 29              | ...      | ...            | 16       | .57            | ...        | ...            | ...        | ...            | 2          | .07            | ...      | ...           | 23          | .83           |
| 30              | ...      | ...            | 14       | .56            | ...        | ...            | ...        | ...            | ...        | ...            | ...      | ...           | 17          | .68           |
| 31              | ...      | ...            | 4        | .15            | ...        | ...            | ...        | ...            | 3          | .11            | ...      | ...           | 21          | .83           |
| 32              | ...      | ...            | 62       | .45            | ...        | ...            | ...        | ...            | 15         | .10            | ...      | ...           | 100         | .72           |
| 33              | ...      | ...            | 34       | .40            | ...        | ...            | ...        | ...            | 7          | .08            | ...      | ...           | 79          | .95           |
| 34              | ...      | ...            | 31       | .71            | ...        | ...            | ...        | ...            | 5          | .11            | ...      | ...           | 42          | .97           |
| 35              | ...      | ...            | 32       | 1.72           | ...        | ...            | ...        | ...            | 1          | .05            | ...      | ...           | 18          | .97           |
| 36              | ...      | ...            | 16       | .51            | ...        | ...            | ...        | ...            | 3          | .09            | ...      | ...           | 40          | 1.23          |
| 37              | ...      | ...            | 75       | .77            | ...        | ...            | ...        | ...            | 12         | .12            | ...      | ...           | 173         | 1.7           |
| 38              | ...      | ...            | 13       | .56            | ...        | ...            | ...        | ...            | 3          | .13            | ...      | ...           | 26          | 1.13          |
| 39              | ...      | ...            | 16       | .48            | ...        | ...            | ...        | ...            | 1          | .03            | ...      | ...           | 48          | 1.46          |
| 40              | ...      | ...            | 90       | .69            | ...        | ...            | ...        | ...            | 24         | .18            | ...      | ...           | 131         | 1.01          |
| 41              | ...      | ...            | 18       | .67            | ...        | ...            | ...        | ...            | ...        | ...            | ...      | ...           | 21          | .78           |
| 42              | 2        | .01            | 103      | .91            | 14         | .12            | ...        | ...            | 10         | .08            | ...      | ...           | 79          | .69           |
| 43              | ...      | ...            | 50       | 1.05           | ...        | ...            | ...        | ...            | 3          | .06            | ...      | ...           | 18          | .38           |
| 44              | ...      | ...            | 5        | .41            | ...        | ...            | ...        | ...            | 1          | .08            | ...      | ...           | 6           | .49           |
| 45              | ...      | ...            | 49       | 1.21           | ...        | ...            | ...        | ...            | 3          | .07            | ...      | ...           | 21          | .52           |
| 46              | ...      | ...            | 29       | .50            | ...        | ...            | ...        | ...            | 4          | .06            | ...      | ...           | 50          | .86           |
| 47              | ...      | ...            | 28       | .70            | ...        | ...            | ...        | ...            | 5          | .12            | ...      | ...           | 49          | 1.22          |

## Infantile Mortality.

118 Infants died during the year.

This is at the rate of 144 per 1,000 Births.

2.9 per 1,000 of population.

20.9 per cent. of total deaths.

|                              | Males. |       | Females. |       | Total. |
|------------------------------|--------|-------|----------|-------|--------|
| Premature Birth .....        | 18     | ..... | 13       | ..... | 31     |
| Convulsions .....            | 3      | ..... | 2        | ..... | 5      |
| Bronchitis and Pneumonia ... | 19     | ..... | 8        | ..... | 27     |
| Diarrhoea .....              | —      | ..... | 1        | ..... | 1      |
| Inanition .....              | 11     | ..... | 6        | ..... | 17     |
| Other Diseases .....         | 23     | ..... | 14       | ..... | 37     |
|                              | —      |       | —        |       | —      |
|                              | 74     |       | 44       |       | 118    |
|                              | —      |       | —        |       | —      |

|                               | Males. |       | Females. |       | Total. |
|-------------------------------|--------|-------|----------|-------|--------|
| Zymotic Diseases .....        | 2      | ..... | 2        | ..... | 4      |
| Diatetic Diseases .....       | 19     | ..... | 10       | ..... | 29     |
| Constitutional Diseases ..... | 1      | ..... | —        | ..... | 1      |
| Development Diseases .....    | 18     | ..... | 14       | ..... | 32     |
| Respiratory Diseases .....    | 21     | ..... | 9        | ..... | 30     |
|                               | —      |       | —        |       | —      |
|                               | 61     |       | 35       |       | 96     |
|                               | —      |       | —        |       | —      |

|                          | Males. |       | Females. |       | Total. |
|--------------------------|--------|-------|----------|-------|--------|
| Nervous System .....     | 6      | ..... | 6        | ..... | 12     |
| Circulatory System ..... | 1      | ..... | 1        | ..... | 2      |
| Digestive System .....   | 19     | ..... | 10       | ..... | 29     |
| Lymphatic System .....   | —      | ..... | 1        | ..... | 1      |
| Other Causes .....       | 48     | ..... | 26       | ..... | 74     |
|                          | —      |       | —        |       | —      |
|                          | 74     |       | 44       |       | 118    |
|                          | —      |       | —        |       | —      |

What is known as Infantile Mortality all over the country is the relation of deaths per annum of children under twelve months old to one thousand births for the same period.

The rate for Darwen is 144, somewhat lower than is usual, but yet much higher than it should be.

At least we should aim at keeping this Infantile Death-rate below 100 per 1,000 births, and consider every death above that as a preventable one, and, consequently, an unnecessary one.

The question naturally arises to what is this heavy rate due ? and how can it be reduced ?

Table V., which has been arranged by Dr. Sergeant, County Medical Officer of Health, analyses the various causes which have proved fatal among our infant population, and the ages at which they have died ; the idea of separating the deaths into weeks during the first month of infantile life, and afterwards into months until the year is completed, is a most admirable one, and will help very materially in estimating the effect of the various causes at work.

It is very rare that one so young as the age under consideration is susceptible to Infectious Diseases. They may almost be left out of consideration, yet not entirely disregarded, as the table shows us three deaths, one each from the following causes—Measles, 11 months old ; Scarlet Fever, 5 months ; Diphtheria, 11 months.

Then comes the division into Diarrhœal Diseases, a question of very great importance, as this complaint is now looked upon as a Zymotic Disease, and due to the influence of micro-organisms, showing the necessity of having complete control of the milk supply, as to its purity and perfect cleanliness, of the buildings, utensils, and the persons engaged in the different farming operations.

Much has been done during the last few years to improve our milk supply, which will be dealt with in my remarks on the farms. At this point it is only necessary to say something in connection with the feeding of infants.

The diseases mentioned in Table V. are subject to the nourishment supplied, and the possibility not only of distributing disease through the medium of the food, but the want of development on account of the absence of nutriment in the milk.

The cause of such a high rate of mortality during the first year of life is due to want of nourishment and the want of care on the mothers' or nurses' part.

I have on many occasions dealt with the system of out-nursing, by which the child is carried out in the early morning, taken from a warm bed, and often put straight into a cradle filled with a doubtful-looking straw. The repeated wetting of this material, left to dry as it can, is not a judicious thing, yet straw is cheap and should be frequently changed. An improvement would be the substitution of carbolized tow, or wood wool dressing. There is a good opening for the manufacture of such a substance, which would reverse the ordinary dictum of "cheap and nasty" into "cheap and clean." I propose to make an experiment on these lines.

The ordinary feeding bottles with long tubes have for years been condemned. What is worse, when the bottle is accidentally broken it is replaced with an old beer or "pop" bottle. This is neither clean nor convenient. It should be made an offence to use any but a registered sort, which runs the least danger of getting out of order or unclean.

The only real remedy which suggests itself to me is the establishment of Day Nurseries or Crèches, where infants and children can be taken to in the early morning to be cared for by trained women, properly fed on pure milk, and the older children entertained on the "Kindergarten" system. This would have the effect of seeing our little ones properly looked after, and relieve our schools of a great deal of what is only nursing instead of education.

In a town like Darwen one Crèche in each Ward would be enough ; at least one might be tried as an experiment. If we are to touch the foundation of our Infantile Mortality and physical deterioration, I feel sure that is where we must attack it.

There is such an amazing amount of ignorance on the question of infant feeding, I have repeatedly given instructions how to do it ; so little result do I see, that I am forced to keep driving at it each succeeding year.

If a mother has a sufficient amount of suitable milk she should feed her own baby. When I say suitable I mean a food on which the child continues to make a satisfactory progress, which is evidenced by a gradual increase in its weight. It does not follow because a mother has a plentiful supply of milk in her breasts that it is suitable. The regular intervals of feeding make a great difference in the quality, even of breast milk. When a mother puts her baby too often to the breast it gets too rich, and if the intervals of feeding are too prolonged it becomes weaker. The temperament of the mother influences the quality to a large extent. Should she be worried, anxious, over-worked, or take unsuitable food herself, it will all re-act on the baby by the effect it has on her milk supply.

Thus she can influence herself for good or evil, and a fond mother will sacrifice her own pleasure and convenience for the health of her offspring. Should her milk fail, and she must have recourse to other foods, there is nothing to equal good cows' milk ; not the milk from one cow, as is so frequently recommended, because one animal may be off-colour from a variety of causes, and its effect will be upon the child, whilst if the milk from a mixed herd is used, should one animal not be in perfect health, it will not be felt in the milk when mixed with that from a number of other beasts.

There is an amount of ignorance of the composition of milk, that the bogey of too much proteid is allowed to frighten us, and so much water being added to reduce this proportion of proteid without taking into consideration the reduction of fat, I wonder babies grow up at all.

If women would add the right amount of cream to the reduced milk I could understand it, but they will not go to the trouble. The only remedy I have arrived at is to feed the baby on pure cows' milk unchanged, except the addition of 5 per cent. of lime water and 5 per cent. of sugar ; this is equal to one in twenty. I have for some years been following this course ; the results have fully justified the trial.

**PREMATURE BIRTH.**—Thirty-one prematurely born children died during the year, as compared with 15 in the previous year.

**TUBERCULOR DISEASES** (with the exception of the lungs) are due to the milk, and in every case the milk should be scalded before being used. We are trying to get our milk supply as good as possible. With careful attention to the animals I hope for better things.—See remarks on Farms.

#### DEATHS.

|                                               |    |
|-----------------------------------------------|----|
| Enteritis .....                               | 4  |
| Gastritis and Gastro Intestinal Catarrh ..... | 6  |
|                                               | —  |
|                                               | 10 |
|                                               | —  |

# GOVERNMENT TABLE V.

NAME OF DISTRICT—DARWEN.

## INFANTILE MORTALITY DURING THE YEAR 1905.

Deaths from stated Causes in Weeks and Months under One Year of age—

| CAUSE OF DEATH.                            | Under 1 Week. | 1-2 Weeks. | 2-3 Weeks. | 3-4 Weeks. | Total under 1 Month. | 1-2 Months. | 2-3 Months. | 3-4 Months. | 4-5 Months. | 5-6 Months. | 6-7 Months. | 7-8 Months. | 8-9 Months. | 9-10 Months. | 10-11 Months. | 11-12 Months. | Total Deaths under One Year. |
|--------------------------------------------|---------------|------------|------------|------------|----------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|---------------|---------------|------------------------------|
| <b>All Causes—</b>                         |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Certified .....                            | 34            | 6          | 5          | 7          | 52                   | 10          | 7           | 9           | 6           | 3           | 4           | 4           | 5           | 5            | 3             | 7             | 115                          |
| Uncertified .....                          | 1             |            |            |            | 1                    |             |             |             |             |             | 1           |             |             | 1            |               |               | 3                            |
| <b>Common Infectious Diseases—</b>         |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Small-pox .....                            |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Chicken-pox .....                          |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Measles .....                              |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               | 1             | 1                            |
| Scarlet Fever .....                        |               |            |            |            |                      |             |             |             | 1           |             |             |             |             |              |               |               | 1                            |
| Diphtheria: Croup .....                    |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               | 1             | 1                            |
| Whooping Cough .....                       |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| <b>Diarrhoeal Diseases—</b>                |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Diarrhoea, all forms .....                 |               |            |            |            |                      |             |             |             |             | 1           |             |             |             |              |               |               | 1                            |
| Enteritis (not Tuberculous) .....          |               |            | 1          |            | 1                    | 1           |             | 1           |             |             |             |             |             | 1            |               |               | 4                            |
| Gastritis, Gastro-intestinal Catarrh ..... |               |            |            |            |                      | 2           | 2           | 1           |             |             |             |             |             |              | 1             |               | 6                            |
| <b>Wasting Diseases—</b>                   |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Premature Birth .....                      | 23            | 3          | 2          | 1          | 29                   | 1           | 1           |             |             |             |             |             |             |              |               |               | 31                           |
| Congenital Defects .....                   |               |            |            | 1          | 1                    |             |             |             | 1           |             |             |             |             | 1            |               |               | 3                            |
| Injury at Birth .....                      | 1             |            |            |            | 1                    |             |             |             |             |             |             |             |             |              |               |               | 1                            |
| Want of Breast-milk .....                  |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Atrophy, Debility, Marasmus .....          | 6             | 1          | 1          | 2          | 10                   | 2           | 2           | 1           | 1           |             |             |             |             |              | 1             |               | 17                           |
| <b>Tuberculous Diseases—</b>               |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Tuberculous Meningitis .....               |               |            | 1          |            | 1                    |             |             | 1           | 1           |             |             |             |             | 1            |               |               | 4                            |
| Tuberculous Peritonitis .....              |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Mesenterica .....                          |               |            |            |            |                      |             |             |             |             |             |             |             | 1           |              |               |               | 1                            |
| Other Tuberculous Diseases .....           |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Erysipelas .....                           |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Syphilis .....                             |               |            |            |            |                      |             |             | 1           |             |             |             |             |             |              |               |               | 1                            |
| Rickets .....                              |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Meningitis (not Tuberculous) .....         |               | 1          |            |            | 1                    | 1           |             |             |             |             |             |             |             |              |               |               | 2                            |
| Convulsions .....                          | 1             |            |            | 1          | 2                    | 1           |             |             | 1           |             |             | 1           |             | 1            |               |               | 5                            |
| Bronchitis .....                           |               |            |            |            |                      | 2           |             | 2           | 3           |             | 3           | 1           | 1           | 2            |               | 1             | 15                           |
| Laryngitis .....                           |               |            |            |            |                      |             |             |             |             |             |             |             |             |              |               |               |                              |
| Pneumonia .....                            |               |            |            |            |                      |             | 1           | 2           |             |             |             | 2           | 2           |              | 1             | 4             | 12                           |
| Suffocation, overlaying .....              |               |            |            |            |                      |             |             |             |             |             | 1           | 1           |             | 1            |               |               |                              |
| Other Causes .....                         | 4             | 1          |            | 2          | 7                    |             | 1           | 1           |             |             | 1           | 1           |             | 1            |               |               | 12                           |
|                                            | 35            | 6          | 5          | 7          | 53                   | 10          | 7           | 9           | 6           | 3           | 5           | 4           | 5           | 6            | 3             | 7             | 118                          |

Population (estimated to middle of 1905) ..... 39,918

Births in the year—

Legitimate ..... 793

Illegitimate ..... 25

Deaths from all Causes at all Ages ..... 562

Copies of the following letters were sent to the members of the Medical Profession in the town, with a view to securing supervision in each case.

HEALTH DEPARTMENT,

September 8th, 1905.

CEREBRO-SPINAL FEVER.

Dear Sir,

The Local Government Board has drawn my attention to the above disease as being prevalent in Central Europe and America, and to the possibility of cases occurring in this country.

In the event of such happening in the course of your practice I shall be obliged if you will notify the same to me as soon as possible, every assistance will be given, such as having the Cerebro-spinal Fluid examined.

Yours truly,

F. G. HAWORTH,

Medical Officer of Health.

Dr.....

HEALTH DEPARTMENT,

DARWEN, Nov. 24th, 1905.

Dr.....

Dear Sir,

I shall esteem it a great favour if you will notify me of any case of Pulmonary Phthisis occurring in your practice.

This does not come under the Notification Act, consequently, the Council does not propose to pay the usual fee at present. On receipt of your report I will arrange to have the bedroom occupied by the patient thoroughly disinfected in such a way as not to disturb the good feeling between the patient and yourself.

I also propose to send out leaflets of instructions. If you prefer it these shall be sent to you for distribution, thus saving your time and cost of having them printed.

Yours truly,

F. G. HAWORTH,

Medical Officer of Health.

There were no Cases reported.

**Return of Deaths in Blackburn Workhouse and Lancaster Asylum  
during 1905.**

| Number. | Date of Death. | Date of Admittance to Institution. | NAME.                           | ADDRESS.                | OCCUPATION.        |
|---------|----------------|------------------------------------|---------------------------------|-------------------------|--------------------|
|         | 1905           |                                    |                                 |                         |                    |
| 1       | Feb. 12        | Jan. 27, 1905 ...                  | Mary Gallagher ...              | 5, Bury Street.....     | Widow of Plumber   |
| 2       | „ 25           | Oct. 25, 1898 ...                  | William Mason ...               | 19, Essex Street .....  | Carter .....       |
| 3       | .....          | .....                              | Patrick Reddy ...               | 20, Chapels .....       | Labourer .....     |
| 4       | May 4..        | Aug. 13, 1897 ...                  | Wm. Knowles.....                | 3, Hill Houses .....    | „ .....            |
| 5       | „ 18           | „ 19, 1902 ...                     | Wm. Harwood ...                 | Spring Gardens .....    | Weaver .....       |
| 6       | Feb. 18        | Jan. 23, 1905 ...                  | Janet Hutchinson ...            | 2, Wood Street .....    | Charwoman .....    |
| 7       | Mar. 14        | Nov. 10, 1904 ...                  | Mary Cooper .....               | 3, Holme Street .....   | Winder .....       |
| 8       | Jan. 12        | Jan. 9, 1905.....                  | Charles Carter ...              | Model .....             | Hawker .....       |
| 9       | Apl. 10        | April 3, 1905 ...                  | George Decaux ...               | 13, Union Street.....   | Shoemaker .....    |
| 10      | May 2..        | May 1, 1905.....                   | Wm. Bleasdale ...               | Police Street .....     | Farmer .....       |
| 11      | Nov. 30        | July 11, 1905 ...                  | Eliz. Entwistle ...             | 16, Francis Street ...  | Weaver .....       |
| 12      | Dec. 9..       | Nov. 15, 1905 ...                  | James Bury.....                 | 76, Cemetery Road ...   | Labourer .....     |
| 13      | „ 19           | Dec. 8, 1905.....                  | Alice J. Nightin-<br>gale ..... | 129, Bolton Road .....  | Weaver .....       |
| 14      | „ 30           | Oct. 3, 1905.....                  | John O'Neill .....              | 1, Snape Street .....   | Labourer .....     |
| 15      | .....          | Sept. 13, 1904 ...                 | Sarah Ellison .....             | 117, Cemetery Road ...  | Housewife .....    |
| 16      | Jan. 11        | Dec. 27, 1904 ...                  | Hubert Entwistle..              | 59, Devon Street.....   | Grocer's Assistant |
| 17      | Feb. 21        | Feb. 9, 1905.....                  | Eliz. E. McArdle..              | 44, Stoney Flats .....  | Servant .....      |
| 18      | Apl. 5..       | „ 7, 1905.....                     | John Farrell .....              | 5, Fowler Street.....   | Railway Outporter  |
| 19      | Dec. 10        | Nov. 9, 1905.....                  | John Hargreaves..               | 11, Red Earth Mount     | Weaver .....       |
| 20      | „ 20           | Dec. 6, 1905.....                  | Joseph Bradshaw ..              | 119, Red Earth Road     | Plumber .....      |
| 21      | June 17        | Oct. 13, 1892 ...                  | John Greenwood...               | 8, Calton Terrace ..... | Solicitor .....    |
| 22      | „ 23           | Feb. 9, 1900.....                  | Sarah Dearden ...               | 14, Newton Street ..... | Housewife .....    |
| 23      | Sept. 2        | May 30, 1904 ...                   | Alice Waddicor ...              | John Street .....       | „ .....            |
| 24      | Oct. 29        | Nov. 15, 1904 ...                  | James Holden.....               | 45, Vernon Street ..... | .....              |
| 25      | Nov. 23        | „ 26, 1903 ...                     | Wm. Waddilove...                | 63, Carr Street .....   | .....              |
| 26      | Dec. 13        | July 14, 1903 ...                  | Richard Eccles ..               | 18, Heys Lane.....      | Engine Tenter      |
| 27      | Nov. 15        | Oct. 29, 1905 ...                  | Catherine Mayor..               | 6, Cotton Hall Street   | .....              |

**Return of Deaths in Blackburn Workhouse and Lancaster Asylum  
during 1905.**

| Number. | DISEASES.               | Un-<br>der<br>1 | 1<br>to<br>5 | 5<br>to<br>15 | 15<br>to<br>25 | 25<br>to<br>35 | 35<br>to<br>45 | 45<br>to<br>65 | 65<br>and<br>up-<br>wards | Total |     |
|---------|-------------------------|-----------------|--------------|---------------|----------------|----------------|----------------|----------------|---------------------------|-------|-----|
|         |                         | M F             | M F          | M F           | M F            | M F            | M F            | M F            | M F                       | M     | F   |
| 1       | Senile Decay .....      |                 |              |               |                |                |                |                | 1                         | ...   | 1   |
| 2       | „ .....                 |                 |              |               |                |                |                |                | 1                         | 1     | ... |
| 3       | „ .....                 |                 |              |               |                |                |                |                | 1                         | 1     | ... |
| 4       | „ .....                 |                 |              |               |                |                |                |                | 1                         | 1     | ... |
| 5       | „ .....                 |                 |              |               |                |                |                |                | 1                         | 1     | ... |
| 6       | Phthisis .....          |                 |              |               |                |                |                | 1              | ...                       | 1     | ... |
| 7       | „ .....                 |                 |              |               |                |                | 1              | ...            | ...                       | 1     | ... |
| 8       | Bronchitis .....        |                 |              |               |                |                | 1              | ...            | ...                       | 1     | ... |
| 9       | „ .....                 |                 |              |               |                |                |                | 1              | ...                       | 1     | ... |
| 10      | „ .....                 |                 |              |               |                |                |                | 1              | ...                       | 1     | ... |
| 11      | „ .....                 |                 |              |               |                |                |                |                | 1                         | ...   | 1   |
| 12      | „ .....                 |                 |              |               |                |                |                |                | 1                         | ...   | 1   |
| 13      | „ .....                 |                 |              |               |                |                |                | 1              | 1                         | ...   | 1   |
| 14      | „ .....                 |                 |              |               |                |                |                | 1              | ...                       | 1     | ... |
| 15      | „ .....                 |                 |              |               |                |                |                | 1              | ...                       | ...   | 1   |
| 16      | Pneumonia .....         |                 |              |               | 1              | ...            |                |                | ...                       | 1     | ... |
| 17      | Heart Disease.....      |                 |              |               | 1              | ...            |                |                | ...                       | ...   | 1   |
| 18      | „ .....                 |                 |              |               |                |                | 1              | ...            | ...                       | 1     | ... |
| 19      | „ .....                 |                 |              |               |                | 1              | ...            | ...            | ...                       | 1     | ... |
| 20      | „ .....                 |                 |              |               |                |                | 1              | ...            | ...                       | 1     | ... |
| 21      | „ .....                 |                 |              |               |                |                | 1              | ...            | ...                       | 1     | ... |
| 22      | Cerebral Softening..... |                 |              |               |                |                |                | 1              | ...                       | ...   | 1   |
| 23      | „ .....                 |                 |              |               |                |                |                | 1              | ...                       | ...   | 1   |
| 24      | „ .....                 |                 |              |               |                | 1              | ...            | ...            | ...                       | 1     | ... |
| 25      | „ .....                 |                 |              |               |                | 1              | ...            | ...            | ...                       | 1     | ... |
| 26      | Cancer of Neck .....    |                 |              |               |                |                |                | 1              | ...                       | 1     | ... |
| 27      | Burns .....             |                 |              |               |                |                |                |                | 1                         | ...   | 1   |
|         |                         |                 |              |               | 1              | 1              | 3              | 6              | 7                         | 17    | 10  |
|         |                         | ...             | ...          | ...           | 1              | 1              | 4              | 11             | 10                        | 27    |     |

TABLE XV.

Showing the Diseases and Age Periods at which Persons have Died.

| DISEASES.                            | Un-<br>der<br>1 yr | 1<br>to<br>5 | 5<br>to<br>15 | 15<br>to<br>25 | 25<br>to<br>35 | 35<br>to<br>45 | 45<br>to<br>65 | 65 and<br>upwards |     | Total. |     |     |     |     |     |     |    |    |
|--------------------------------------|--------------------|--------------|---------------|----------------|----------------|----------------|----------------|-------------------|-----|--------|-----|-----|-----|-----|-----|-----|----|----|
|                                      | M F                | M F          | M F           | M F            | M F            | M F            | M F            | M                 | F   | M      | F   |     |     |     |     |     |    |    |
| <b>RESPIRATORY DISEASES.</b>         |                    |              |               |                |                |                |                |                   |     |        |     |     |     |     |     |     |    |    |
| Bronchitis .....                     | 11                 | 4            | 3             | 2              | ...            | ...            | 1              | 7                 | 4   | 6      | 13  | 27  | 24  |     |     |     |    |    |
| Pneumonia .....                      | 8                  | 4            | 6             | 6              | 3              | 3              | 1              | 3                 | 3   | 2      | 2   | 1   | 3   | 24  | 23  |     |    |    |
| Pleurisy .....                       | ...                | ...          | ...           | ...            | 1              | ...            | 1              | ...               | ... | ...    | ... | ... | ... | ... | 2   |     |    |    |
| Phthisis .....                       | ...                | ...          | 1             | ...            | 2              | 6              | 3              | 5                 | 3   | 1      | 10  | 2   | 1   | 2   | 19  | 17  |    |    |
| Laryngitis .....                     | ...                | ...          | 1             | ...            | ...            | ...            | ...            | ...               | ... | ...    | ... | ... | ... | ... | ... | 1   |    |    |
| Bronchial Asthma .....               | ...                | ...          | ...           | ...            | ...            | ...            | ...            | ...               | ... | 1      | ... | ... | ... | 1   | ... | ... |    |    |
| Atelectasis .....                    | 2                  | 1            | ...           | ...            | ...            | ...            | ...            | ...               | ... | ...    | ... | ... | ... | 2   | ... | 1   |    |    |
|                                      | 21                 | 9            | 9             | 10             | 3              | 3              | 2              | 7                 | 4   | 8      | 6   | 5   | 19  | 8   | 9   | 18  | 73 | 68 |
| <b>DIGESTIVE DISEASES.</b>           |                    |              |               |                |                |                |                |                   |     |        |     |     |     |     |     |     |    |    |
| Inanition .....                      | 11                 | 6            | ...           | 1              | ...            | ...            | ...            | ...               | ... | ...    | ... | 11  | 7   |     |     |     |    |    |
| Enteritis .....                      | 2                  | 2            | 2             | 1              | ...            | ...            | ...            | ...               | 2   | ...    | ... | 1   | 4   | 6   |     |     |    |    |
| Intestinal Obstruction .....         | ...                | ...          | ...           | ...            | ...            | ...            | ...            | 1                 | ... | ...    | 2   | ... | 3   |     |     |     |    |    |
| Tonsillitis .....                    | ...                | 1            | ...           | ...            | ...            | ...            | ...            | ...               | ... | ...    | ... | 1   | ... |     |     |     |    |    |
| Gastritis .....                      | 1                  | 1            | ...           | ...            | ...            | ...            | 1              | 1                 | 1   | ...    | ... | 3   | 2   |     |     |     |    |    |
| Gastric Ulcer .....                  | ...                | ...          | ...           | 1              | 1              | 1              | ...            | 1                 | 1   | ...    | 1   | ... | 4   | 2   |     |     |    |    |
| Stenosis of Pylorus of Stomach ..... | ...                | ...          | ...           | ...            | ...            | ...            | ...            | 1                 | ... | ...    | ... | ... | 1   |     |     |     |    |    |
| Perforation of Bowel .....           | ...                | ...          | ...           | 1              | ...            | ...            | ...            | ...               | ... | ...    | ... | ... | 1   |     |     |     |    |    |
| Hepatitis .....                      | ...                | ...          | ...           | ...            | ...            | ...            | 1              | ...               | ... | ...    | ... | 1   | ... |     |     |     |    |    |
| Appendicitis .....                   | ...                | ...          | ...           | ...            | 1              | 1              | ...            | 1                 | ... | 1      | ... | 3   | 1   |     |     |     |    |    |
| Peritonitis .....                    | ...                | ...          | 1             | 1              | ...            | ...            | ...            | ...               | ... | ...    | ... | ... | 2   |     |     |     |    |    |
| Intussusception of Bowel .....       | 1                  | 1            | ...           | ...            | ...            | ...            | ...            | ...               | ... | ...    | ... | 1   | 1   |     |     |     |    |    |
| Gall Stones .....                    | ...                | ...          | ...           | ...            | ...            | 1              | 1              | ...               | 1   | ...    | ... | 1   | 2   |     |     |     |    |    |
| Cirrhosis of Liver .....             | ...                | ...          | ...           | ...            | ...            | ...            | 2              | 1                 | ... | ...    | ... | 2   | 1   |     |     |     |    |    |
| Colitis .....                        | ...                | ...          | ...           | ...            | 1              | ...            | ...            | ...               | ... | 1      | ... | ... | 2   |     |     |     |    |    |
| Strangulated Hernia .....            | ...                | ...          | ...           | ...            | ...            | ...            | 1              | ...               | ... | ...    | ... | 1   | ... |     |     |     |    |    |
| Gastro Enteritis .....               | 4                  | ...          | ...           | ...            | ...            | ...            | ...            | ...               | ... | ...    | ... | 4   | ... |     |     |     |    |    |
|                                      | 19                 | 10           | 3             | 3              | ...            | 2              | 1              | 1                 | 2   | 2      | 1   | 2   | 7   | 7   | 3   | 4   | 36 | 31 |
| <b>CIRCULATORY DISEASES.</b>         |                    |              |               |                |                |                |                |                   |     |        |     |     |     |     |     |     |    |    |
| Heart Disease .....                  | 1                  | 1            | ...           | 2              | 1              | 4              | 5              | 2                 | 6   | 4      | 4   | 7   | 7   | 6   | 8   | 26  | 32 |    |
| Thoracic Aneurism .....              | ...                | ...          | ...           | ...            | ...            | ...            | ...            | ...               | 1   | ...    | ... | ... | ... | ... | 1   | ... |    |    |
| Embolism of Arteries of Foot..       | ...                | ...          | ...           | ...            | ...            | ...            | ...            | ...               | ... | ...    | 1   | ... | ... | ... | 1   | ... |    |    |
|                                      | 1                  | 1            | ...           | 2              | 1              | 4              | 5              | 2                 | 6   | 4      | 4   | 8   | 7   | 7   | 8   | 28  | 32 |    |

TABLE XV.—(Continued).

| DISEASES.                         | Un-<br>der<br>1 yr | 1<br>to<br>5 | 5<br>to<br>15 | 15<br>to<br>25 | 25<br>to<br>35 | 35<br>to<br>45 | 45<br>to<br>65 | 65 and<br>upwards |    | Total. |    |    |    |    |
|-----------------------------------|--------------------|--------------|---------------|----------------|----------------|----------------|----------------|-------------------|----|--------|----|----|----|----|
|                                   | M F                | M F          | M F           | M F            | M F            | M F            | M F            | M                 | F  | M      | F  |    |    |    |
| NERVOUS DISEASES.                 |                    |              |               |                |                |                |                |                   |    |        |    |    |    |    |
| Apoplexy .....                    |                    |              |               |                |                | 2              | 9              | 7                 | 3  | 8      | 14 | 15 |    |    |
| Convulsions .....                 | 3                  | 2            |               |                |                |                |                |                   |    |        | 3  | 2  |    |    |
| Anterio Poliomyelitis .....       |                    |              | 1             |                |                |                |                |                   |    |        | 1  |    |    |    |
| Hemiplegia .....                  |                    |              |               |                |                |                | 1              |                   | 1  |        |    | 2  |    |    |
| Cerebral Sclerosis .....          |                    |              |               |                |                | 1              |                |                   |    |        | 1  |    |    |    |
| Laryngismus Stridulus .....       |                    | 1            |               |                |                |                |                |                   |    |        | 1  |    |    |    |
| Hydrocephalus .....               | 1                  | 1            |               |                |                |                |                |                   |    |        | 1  | 1  |    |    |
| Locomotor Ataxia .....            |                    |              |               |                |                | 1              |                |                   |    |        | 1  |    |    |    |
| Meningitis .....                  | 1                  | 1            | 2             | 1              | 2              |                |                |                   |    |        | 5  | 2  |    |    |
| Tubercular Meningitis .....       | 2                  | 2            | 4             | 1              |                |                |                |                   |    |        | 6  | 3  |    |    |
|                                   | 6                  | 6            | 8             | 2              | 3              |                | 4              | 9                 | 8  | 3      | 9  | 33 | 25 |    |
| GENERAL DISEASES.                 |                    |              |               |                |                |                |                |                   |    |        |    |    |    |    |
| Tubercular Peritonitis .....      |                    |              |               | 1              |                |                |                |                   |    |        |    | 1  |    |    |
| Erysipelas .....                  |                    |              |               |                |                |                | 1              |                   |    |        | 1  |    |    |    |
| Senile Decay .....                |                    |              |               |                |                |                | 1              | 7                 | 11 | 8      | 11 |    |    |    |
| Rheumatism .....                  |                    |              |               | 1              |                |                |                |                   |    |        | 1  |    |    |    |
| Acute Rheumatism .....            |                    |              | 2             | 2              | 1              |                |                |                   |    |        | 3  | 2  |    |    |
| Diabetes .....                    |                    |              |               | 1              |                |                | 1              | 3                 |    |        | 1  | 4  |    |    |
| Puerperal Fever .....             |                    |              |               |                | 2              | 1              |                |                   |    |        |    | 3  |    |    |
| Anæmia .....                      |                    |              |               |                | 1              |                |                |                   |    |        |    | 1  |    |    |
| Pernicious Anæmia .....           |                    |              |               |                |                |                |                | 1                 |    |        | 1  |    |    |    |
| Septicæmia .....                  |                    |              |               |                | 1              |                |                |                   |    |        |    | 1  |    |    |
| Influenza .....                   |                    |              |               |                |                | 2              | 1              | 1                 | 1  | 1      | 2  | 4  |    |    |
| Syphilitic Gumma on Brain .....   |                    | 1            |               |                |                |                |                |                   |    |        | 1  |    |    |    |
| Tuberculosis of Intestines .....  |                    |              |               | 1              |                |                |                |                   |    |        | 1  |    |    |    |
| Congenital Specific Disease ..... | 1                  |              |               |                |                |                |                |                   |    |        | 1  |    |    |    |
|                                   | 1                  | 1            | 2             | 4              | 2              | 1              | 4              | 3                 | 4  | 4      | 9  | 12 | 20 | 27 |
| ZYMOTIC DISEASES.                 |                    |              |               |                |                |                |                |                   |    |        |    |    |    |    |
| Diarrhœa .....                    |                    | 1            | 2             | 2              |                |                |                | 2                 | 1  | 1      | 5  | 4  |    |    |
| Enteric Fever .....               |                    |              |               |                | 1              | 1              | 1              |                   |    |        | 2  | 1  |    |    |
| Scarlet Fever .....               | 1                  | 7            | 6             | 1              | 5              | 1              |                |                   |    |        | 9  | 12 |    |    |
| Measles .....                     |                    | 1            | 1             | 1              | 1              |                |                |                   |    |        | 2  | 2  |    |    |
| Diphtheria .....                  | 1                  |              |               | 1              | 1              |                |                |                   |    |        | 2  | 1  |    |    |
|                                   | 2                  | 2            | 10            | 7              | 5              | 6              | 2              | 1                 | 1  | 2      | 1  | 20 | 20 |    |
| URINARY SYSTEM.                   |                    |              |               |                |                |                |                |                   |    |        |    |    |    |    |
| Bright's Disease .....            |                    |              | 2             |                | 2              | 3              | 1              | 3                 | 3  | 3      | 1  | 8  | 10 |    |
| Cystitis .....                    |                    |              |               |                |                |                |                | 1                 | 1  |        | 1  | 1  |    |    |
| Uræmia .....                      |                    |              |               |                |                |                |                | 2                 |    |        |    | 2  |    |    |
|                                   |                    |              | 2             |                | 2              | 3              | 1              | 3                 | 3  | 6      | 2  | 9  | 13 |    |

TABLE XV.—(Continued).

| DISEASES.                        | Un-<br>der<br>1 yr | 1<br>to<br>5 | 5<br>to<br>15 | 15<br>to<br>25 | 25<br>to<br>35 | 35<br>to<br>45 | 45<br>to<br>65 | 65 and<br>upwards |     | Total. |     |
|----------------------------------|--------------------|--------------|---------------|----------------|----------------|----------------|----------------|-------------------|-----|--------|-----|
|                                  | M F                | M F          | M F           | M F            | M F            | M F            | M F            | M                 | F   | M      | F   |
| <b>NEW GROWTHS.</b>              |                    |              |               |                |                |                |                |                   |     |        |     |
| Sarcoma of Neck .....            |                    |              |               |                |                |                | 1              | 1                 | ... | 1      | 1   |
| Cancer of Stomach .....          |                    |              |               |                |                | 1              | 1              | 3                 | 1   | 3      | 4   |
| Cancer of Bowel .....            |                    |              |               |                |                | 1              | ...            | ...               | ... | 1      | ... |
| Cancer of Liver .....            |                    |              |               |                |                | 1              | 1              | 1                 | 1   | 2      | 2   |
| Cancer of Rectum .....           |                    |              |               |                |                |                | 4              | ...               | ... | ...    | 4   |
| Cancer of Breast .....           |                    |              |               |                |                | 2              | 2              | ...               | 1   | ...    | 5   |
| Scirrhus Cancer of Breast .....  |                    |              |               |                |                |                | 1              | ...               | ... | ...    | 1   |
| Cancer of Face .....             |                    |              |               |                |                |                |                | ...               | 1   | ...    | 1   |
| Cancer of Uteri .....            |                    |              |               |                |                | 1              | 3              | ...               | ... | ...    | 4   |
| Cancer of Cæcum .....            |                    |              |               |                |                | 1              | ...            | ...               | ... | 1      | ... |
| Cancer of Larynx .....           |                    |              |               |                |                |                |                | ...               | 1   | ...    | 1   |
| Cancer of Bladder .....          |                    |              |               |                |                |                | 1              | 1                 | 1   | 1      | 1   |
| Cancer .....                     |                    |              |               |                |                | 1              | 1              | ...               | ... | ...    | 2   |
| Cancer of Oesophagus .....       |                    |              |               |                |                |                |                | ...               | 1   | ...    | 1   |
| Hepatic Tumour .....             |                    |              |               |                |                |                | 1              | ...               | ... | ...    | 1   |
| Cerebral Tumour .....            |                    |              |               |                |                | 1              | ...            | ...               | ... | ...    | 1   |
| Ovarian Tumour .....             |                    |              |               |                |                |                | 1              | ...               | ... | ...    | 1   |
|                                  |                    |              |               |                |                | 1              | 5              | 5                 | 18  | 3      | 7   |
|                                  |                    |              |               |                |                |                |                |                   |     | 9      | 30  |
| <b>GENERATIVE DISEASES.</b>      |                    |              |               |                |                |                |                |                   |     |        |     |
| Abscess of Prostate .....        |                    |              |               |                |                | 1              | ...            | ...               | ... | 1      | ... |
| Puerperal Eclampsia .....        |                    |              |               |                |                | 1              | ...            | ...               | ... | ...    | 1   |
| Parturition .....                |                    |              |               | 1              | 2              | ...            | ...            | ...               | ... | ...    | 3   |
| Albuminuria of Pregnancy .....   |                    |              |               |                | 1              | ...            | ...            | ...               | ... | ...    | 1   |
| Abortion Pelvic Cellulitis ..... |                    |              |               | 1              | ...            | ...            | ...            | ...               | ... | ...    | 1   |
| Metritis .....                   |                    |              |               |                |                |                |                | ...               | 1   | ...    | 1   |
|                                  |                    |              |               | 2              | 3              | 1              | 1              | ...               | 1   | 1      | 7   |
| <b>DEVELOPMENT DISEASES.</b>     |                    |              |               |                |                |                |                |                   |     |        |     |
| Premature Birth .....            | 18                 | 13           |               |                |                |                |                |                   |     | 18     | 13  |
| Spina Bifida .....               | 1                  | ...          |               |                |                |                |                |                   |     | ...    | 1   |
|                                  | 18                 | 14           |               |                |                |                |                |                   |     | 18     | 14  |
| <b>SKIN DISEASE.</b>             |                    |              |               |                |                |                |                |                   |     |        |     |
| Pemphigus Neonatorum .....       | 1                  | ...          |               |                |                |                |                |                   |     | 1      | ... |
| <b>BONE DISEASES.</b>            |                    |              |               |                |                |                |                |                   |     |        |     |
| Osteitis .....                   |                    |              |               |                |                |                | 1              | ...               | ... | ...    | 1   |

**TABLE XV.—(Continued).**

| DISEASES.                                   | Un-<br>der<br>1 yr | 1<br>to<br>5 | 5<br>to<br>15 | 15<br>to<br>25 | 25<br>to<br>35 | 35<br>to<br>45 | 45<br>to<br>65 | 65 and<br>upwards |   | Total. |   |
|---------------------------------------------|--------------------|--------------|---------------|----------------|----------------|----------------|----------------|-------------------|---|--------|---|
|                                             | M F                | M F          | M F           | M F            | M F            | M F            | M F            | M                 | F | M      | F |
| <b>LYMPHATIC DISEASES.</b>                  |                    |              |               |                |                |                |                |                   |   |        |   |
| Tabes Mesenterica .....                     | 1                  |              |               |                |                |                |                |                   |   |        | 1 |
| Hodgkin's Disease .....                     |                    |              |               | 1              |                | 1              |                |                   |   | 2      |   |
|                                             | 1                  |              |               | 1              |                | 1              |                |                   |   | 2      | 1 |
| <b>DISEASES OF ORGANS OF<br/>LOCOMOTION</b> |                    |              |               |                |                |                |                |                   |   |        |   |
| Gangrene of Foot .....                      |                    |              |               |                |                |                | 1              | 1                 | 1 | 2      | 1 |
| Gangrene of Left Fore Leg .....             |                    |              |               |                |                |                | 1              |                   |   |        | 1 |
|                                             |                    |              |               |                |                |                | 1              | 2                 | 1 | 2      | 2 |
| <b>SUICIDES</b>                             |                    |              |               |                |                |                |                |                   |   |        |   |
|                                             |                    |              |               |                | 1              | 2              | 2              | 1                 | 1 | 6      | 1 |
| <b>INQUESTS</b>                             |                    |              |               |                |                |                |                |                   |   |        |   |
|                                             | 2                  | 1            |               | 1              |                | 1              | 1              | 3                 | 1 | 9      | 3 |
| <b>INJURIES</b>                             |                    |              |               |                |                |                |                |                   |   |        |   |
|                                             | 1                  | 3            | 1             |                |                |                | 1              | 2                 | 2 | 8      | 3 |
| <b>UNCERTIFIED.</b>                         |                    |              |               |                |                |                |                |                   |   |        |   |
|                                             | 2                  | 1            | 1             |                |                |                | 1              | 2                 |   | 2      | 5 |



# Deaths in Regard to Occupation.

## Heart Disease.

|                             |    |
|-----------------------------|----|
| Housewives .....            | 21 |
| Weavers .....               | 9  |
| Winders .....               | 2  |
| Cotton Spinner .....        | 1  |
| Cotton Twister .....        | 1  |
| Cotton Mill Manager .....   | 1  |
| Coal Miners .....           | 3  |
| Drawer in Coal Mine .....   | 1  |
| Sanitary Pipe Moulder ..... | 1  |
| Paper Maker .....           | 1  |
| Paper Stainer .....         | 1  |
| Joiner .....                | 1  |
| Wheelwright .....           | 1  |
| Stone Quarrier .....        | 1  |
| Clogger .....               | 1  |
| Shoe Maker .....            | 1  |
| Labourers .....             | 2  |
| School Teacher .....        | 1  |

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50  
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## Bronchitis.

|                             |    |
|-----------------------------|----|
| Housewives .....            | 15 |
| Weavers .....               | 3  |
| Cotton Bobbin Carrier ..... | 1  |
| Cotton Mill Manager .....   | 1  |
| Cotton Manufacturer .....   | 1  |
| Cotton Bleacher .....       | 1  |
| Firebeater .....            | 1  |
| Joiner .....                | 1  |
| Labourers .....             | 3  |
| Insurance Agent .....       | 1  |
| Draper .....                | 1  |

—  
29  
—

## Consumption.

|                           |   |
|---------------------------|---|
| Housewives .....          | 8 |
| Weavers .....             | 7 |
| Winders .....             | 4 |
| Cotton Spinner .....      | 1 |
| Cotton Cloth Looker ..... | 1 |
| Cotton Overlooker .....   | 1 |
| Coal Miner .....          | 1 |
| Mechanical Engineer ..... | 1 |
| Shuttle Maker .....       | 1 |
| Painter .....             | 1 |
| Stone Mason .....         | 1 |
| Brick Layer .....         | 1 |
| Labourers .....           | 5 |
| Night Watchman .....      | 1 |
| Electrician .....         | 1 |

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35  
—

## Bronchial Asthma.

|                      |   |
|----------------------|---|
| Cotton Spinner ..... | 1 |
|----------------------|---|

## Apoplexy.

|                           |    |
|---------------------------|----|
| Housewives .....          | 15 |
| Weavers .....             | 5  |
| Cotton Sizer .....        | 1  |
| Mechanical Engineer ..... | 1  |
| Painter .....             | 1  |
| Carter .....              | 1  |
| Labourers .....           | 2  |
| Night Watchman .....      | 1  |
| Farmer .....              | 1  |
| Fish Dealer .....         | 1  |
| Licensed Victualler ..... | 1  |

—  
30  
—

**Cancer of Stomach**

|                    |       |
|--------------------|-------|
| Housewives .....   | 3     |
| Weaver .....       | 1     |
| Winder .....       | 1     |
| Store Keeper ..... | 1     |
|                    | <hr/> |
|                    | 6     |
|                    | <hr/> |

**Cancer of Uterus.**

|                  |   |
|------------------|---|
| Housewives ..... | 5 |
|------------------|---|

**Pneumonia.**

|                           |       |
|---------------------------|-------|
| Housewives .....          | 8     |
| Charwoman .....           | 1     |
| Weavers .....             | 2     |
| Cotton Manufacturer ..... | 1     |
| Carters .....             | 2     |
| Labourer .....            | 1     |
| Farmer .....              | 1     |
| Nurseryman .....          | 1     |
|                           | <hr/> |
|                           | 17    |
|                           | <hr/> |

**Pleurisy.**

|                   |       |
|-------------------|-------|
| Housewife .....   | 1     |
| Dress Maker ..... | 1     |
|                   | <hr/> |
|                   | 2     |
|                   | <hr/> |

**Influenza.**

|                   |       |
|-------------------|-------|
| Housewives .....  | 2     |
| Housekeeper ..... | 1     |
| Weavers .....     | 2     |
| Joiner .....      | 1     |
|                   | <hr/> |
|                   | 6     |
|                   | <hr/> |

**Diarrhœa.**

|                  |       |
|------------------|-------|
| Housewives ..... | 3     |
| Butcher .....    | 1     |
|                  | <hr/> |
|                  | 4     |
|                  | <hr/> |

**Cancer of Liver.**

|                  |       |
|------------------|-------|
| Housewives ..... | 2     |
| Labourer .....   | 1     |
|                  | <hr/> |
|                  | 3     |
|                  | <hr/> |

**Cancer of Breast**

|                  |       |
|------------------|-------|
| Housewives ..... | 3     |
| Weavers .....    | 2     |
|                  | <hr/> |
|                  | 5     |
|                  | <hr/> |

**Cancer of Oesophagus.**

|                 |   |
|-----------------|---|
| Housewife ..... | 1 |
|-----------------|---|

**Cancer of Face.**

|                 |   |
|-----------------|---|
| Housewife ..... | 1 |
|-----------------|---|

**Cancer of Bladder.**

|                 |       |
|-----------------|-------|
| Housewife ..... | 1     |
| Draper .....    | 1     |
|                 | <hr/> |
|                 | 2     |
|                 | <hr/> |

**Appendicitis.**

|                   |       |
|-------------------|-------|
| Paper Maker ..... | 1     |
| Labourer .....    | 1     |
|                   | <hr/> |
|                   | 2     |
|                   | <hr/> |

**Diabetes.**

|                  |       |
|------------------|-------|
| Housewives ..... | 3     |
| Weaver .....     | 1     |
| Reacher in ..... | 1     |
|                  | <hr/> |
|                  | 5     |
|                  | <hr/> |

**Bright's Disease.**

|                      |       |
|----------------------|-------|
| Housewives .....     | 4     |
| Weavers .....        | 5     |
| Cotton Spinner ..... | 1     |
| Engine Tenter .....  | 1     |
| Firebeater .....     | 1     |
| Painter .....        | 1     |
| Shoe Maker .....     | 1     |
| Labourer .....       | 1     |
| Grocer .....         | 1     |
| Milliner .....       | 1     |
|                      | <hr/> |
|                      | 17    |
|                      | <hr/> |

**Obstruction of Bowels.**

|                  |   |
|------------------|---|
| Housewives ..... | 3 |
|------------------|---|

**Hepatitis.**

|                |   |
|----------------|---|
| Labourer ..... | 1 |
|----------------|---|

**Cancer of Rectum.**

|                  |   |
|------------------|---|
| Housewives ..... | 2 |
|------------------|---|

**Cancer of Larynx.**

|                 |   |
|-----------------|---|
| Housewife ..... | 1 |
|-----------------|---|

**Cancer.**

|              |   |
|--------------|---|
| Weaver ..... | 1 |
|--------------|---|

**Enteritis.**

|                 |       |
|-----------------|-------|
| Housewife ..... | 1     |
| Weavers .....   | 2     |
|                 | <hr/> |
|                 | 3     |
|                 | <hr/> |

**Gastritis.**

|              |       |
|--------------|-------|
| Winder ..... | 1     |
| Carter ..... | 1     |
|              | <hr/> |
|              | 2     |
|              | <hr/> |

**Colitis.**

|                  |   |
|------------------|---|
| Housewives ..... | 2 |
|------------------|---|

**Acute Rheumatism.**

|                  |       |
|------------------|-------|
| Weavers .....    | 2     |
| Reacher in ..... | 1     |
| Carter .....     | 1     |
|                  | <hr/> |
|                  | 4     |
|                  | <hr/> |

**Septicæmia.**

|              |   |
|--------------|---|
| Weaver ..... | 1 |
|--------------|---|

**Pernicious Anæmia.**

|                        |   |
|------------------------|---|
| Tin Plate Worker ..... | 1 |
|------------------------|---|

**Hodgkin's Disease.**

|                  |       |
|------------------|-------|
| Joiner .....     | 1     |
| Furnaceman ..... | 1     |
|                  | <hr/> |
|                  | 2     |
|                  | <hr/> |

**Erysipelas.**

|                     |   |
|---------------------|---|
| Coal Merchant ..... | 1 |
|---------------------|---|

**Cancer of Cæcum.**

|                 |   |
|-----------------|---|
| Labourer .....  | 1 |
| Housewife ..... | 1 |

---

2

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**Sarcoma of Neck.**

|                  |   |
|------------------|---|
| Housewife .....  | 1 |
| Coal Miner ..... | 1 |

---

2

---

**Cystitis.**

|                 |   |
|-----------------|---|
| Housewife ..... | 1 |
| Weaver .....    | 1 |

---

2

---

**Call Stones.**

|                           |   |
|---------------------------|---|
| Teacher of Music .....    | 1 |
| Licensed Victualler ..... | 1 |
| Housewife .....           | 1 |

---

3

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**Metritis.**

|                 |   |
|-----------------|---|
| Housewife ..... | 1 |
|-----------------|---|

**Puerperal Fever.**

|                    |   |
|--------------------|---|
| Housewife .....    | 1 |
| Cotton Rover ..... | 1 |

---

2

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**Puerperal Eclampsia.**

|                 |   |
|-----------------|---|
| Housewife ..... | 1 |
|-----------------|---|

**Childbirth.**

|                  |   |
|------------------|---|
| Housewives ..... | 2 |
|------------------|---|

**Parturition.**

|              |   |
|--------------|---|
| Weaver ..... | 1 |
| Warper ..... | 1 |
| Winder ..... | 1 |

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3

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**Abortion Pelvic Cellulitis.**

|              |   |
|--------------|---|
| Weaver ..... | 1 |
|--------------|---|

**Gangrene of Leg and Foot.**

|                      |   |
|----------------------|---|
| Housewives .....     | 2 |
| Rate Collector ..... | 1 |

---

3

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**Locomotor Ataxia.**

|                |   |
|----------------|---|
| Labourer ..... | 1 |
|----------------|---|

**Tumour of Ovaries.**

|                 |   |
|-----------------|---|
| Housewife ..... | 1 |
|-----------------|---|

**Osteritis.**

|                 |   |
|-----------------|---|
| Housewife ..... | 1 |
|-----------------|---|

**Cerebral Tumour.**

Housewife ..... I

**Thoracic Aneurism.**

Labourer ..... I

**Cerebral Sclerosis.**

Weaver ..... I

**Neurasthenia.**

Weaver ..... I

**Abscess of Prostate.**

Cotton Cardroom Operative .... I

**Senile Decay.**

Housewives ..... 12

Cotton Warehouseman ..... I

Cotton Overlooker ..... I

Coal Heaver ..... I

Engine Tenter ..... I

Joiner ..... I

Stone Waller ..... I

Carter ..... I

Labourer ..... I

—  
20  
—**Uræmia.**

Licensed Victualler ..... I

**Suicides.**

Weaver ..... I

Iron Moulder ..... I

Firebeater ..... I

Brick Layer ..... I

Labourer ..... I

Outfitter ..... I

—  
6  
—**Embolies of Arteries of Foot.**

Weaver ..... I

**Inquests.**

Housewives ..... 2

Servant ..... I

Weaver ..... I

Cotton Overlooker ..... I

Flagger ..... I

Labourers ..... 3

—  
9  
—**Uncertified.**

Housewives ..... 2

Coal Miner ..... I

Librarian ..... I

—  
4  
—**Enteric Fever.**

Weaver ..... I

Labourers ..... 2

—  
3  
—

### Uræmic Convulsions.

Housewife ..... 1

### Ulcer of Stomach.

Weaver ..... 1

Housewife ..... 1

Bill Poster ..... 1

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3

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### Injuries.

Housewife ..... 1

Cotton Spinner ..... 1

Packer ..... 1

Flagger ..... 1

Labourer ..... 1

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TABLE XVI.

| DISEASE.                     | 5 to 15 |   | 15 to 25 |   | 25 to 35 |   | 35 to 45 |   | 45 to 65 |   | 65 and upwards |   | Total. |   |
|------------------------------|---------|---|----------|---|----------|---|----------|---|----------|---|----------------|---|--------|---|
|                              | M       | F | M        | F | M        | F | M        | F | M        | F | M              | F | M      | F |
|                              |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| <b>Housewives.</b>           |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Senile Decay.....            |         |   |          |   |          |   |          |   |          |   | 12             |   | 12     |   |
| Bronchitis .....             |         |   |          |   |          |   | 1        |   | 1        |   | 13             |   | 15     |   |
| Phthisis .....               |         |   | 1        |   | 2        |   | 1        |   | 2        |   | 2              |   | 8      |   |
| Cancer of Oesophagus .....   |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Obstruction of Bowels .....  |         |   |          |   |          |   |          |   | 1        |   | 2              |   | 3      |   |
| Heart Disease .....          |         |   | 1        |   | 2        |   | 3        |   | 7        |   | 8              |   | 21     |   |
| Gangrene of Leg .....        |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Cancer of Stomach .....      |         |   |          |   |          |   |          |   | 2        |   | 1              |   | 3      |   |
| Apoplexy .....               |         |   |          |   |          |   |          |   | 6        |   | 9              |   | 15     |   |
| Puerperal Eclampsia .....    |         |   |          |   |          |   | 1        |   |          |   |                |   | 1      |   |
| Puerperal Fever .....        |         |   |          |   |          |   | 1        |   |          |   |                |   | 1      |   |
| Cancer of Recti .....        |         |   |          |   |          |   |          |   | 2        |   |                |   | 2      |   |
| Pneumonia .....              |         |   |          |   | 2        |   | 1        |   | 2        |   | 3              |   | 8      |   |
| Bright's Disease .....       |         |   |          |   |          |   | 3        |   | 1        |   |                |   | 4      |   |
| Cancer of Breast .....       |         |   |          |   |          |   |          |   | 2        |   | 1              |   | 3      |   |
| Childbirth Anæmia .....      |         |   |          |   | 1        |   |          |   |          |   |                |   | 1      |   |
| Inquest .....                |         |   |          |   |          |   | 1        |   | 1        |   |                |   | 2      |   |
| Diarrhœa .....               |         |   |          |   |          |   |          |   | 2        |   | 1              |   | 3      |   |
| Enteritis .....              |         |   |          |   |          |   |          |   |          |   | 1              |   | 1      |   |
| Cancer of Face .....         |         |   |          |   |          |   |          |   |          |   | 1              |   | 1      |   |
| Cancer of Uteri .....        |         |   |          |   |          |   | 1        |   | 3        |   | 1              |   | 5      |   |
| Diabetes .....               |         |   |          |   |          |   |          |   | 3        |   |                |   | 3      |   |
| Influenza .....              |         |   |          |   |          |   | 1        |   | 1        |   |                |   | 2      |   |
| Metritis .....               |         |   |          |   |          |   |          |   |          |   | 1              |   | 1      |   |
| Injuries .....               |         |   |          |   |          |   |          |   |          |   | 1              |   | 1      |   |
| Albumenuria Child Birth..... |         |   |          |   | 1        |   |          |   |          |   |                |   | 1      |   |
| Cancer of Cæcum .....        |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Cancer of Larynx .....       |         |   |          |   |          |   |          |   |          |   | 1              |   | 1      |   |
| Gangrene of Foot .....       |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Tumour of Ovaries .....      |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Cystitis .....               |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Uncertified .....            |         |   |          |   |          |   | 1        |   |          |   | 1              |   | 2      |   |
| Pleurisy .....               |         |   |          |   |          |   | 1        |   |          |   |                |   | 1      |   |
| Sarcoma of Neck .....        |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Chronic Oosteritis .....     |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Uremic Convulsions .....     |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
| Colitis .....                |         |   |          |   | 1        |   |          |   |          |   | 1              |   | 2      |   |
| Cerebral Tumour .....        |         |   |          |   |          |   | 1        |   |          |   |                |   | 1      |   |
| Ulcer of Stomach .....       |         |   |          |   |          |   | 1        |   |          |   |                |   | 1      |   |
| Cancer of Bladder .....      |         |   |          |   |          |   |          |   |          |   | 1              |   | 1      |   |
| Cancer of Liver .....        |         |   |          |   |          |   |          |   | 1        |   | 1              |   | 2      |   |
| Biliary Calculus .....       |         |   |          |   |          |   |          |   | 1        |   |                |   | 1      |   |
|                              |         |   | 2        |   | 9        |   | 18       |   | 47       |   | 62             |   | 138    |   |

TABLE XVI.—(Continued).

| DISEASE.                           | 5 to 15 |   | 15 to 25 |    | 25 to 35 |   | 35 to 45 |   | 45 to 65 |   | 65 and upwards |     | Total. |     |
|------------------------------------|---------|---|----------|----|----------|---|----------|---|----------|---|----------------|-----|--------|-----|
|                                    | M       | F | M        | F  | M        | F | M        | F | M        | F | M              | F   | M      | F   |
| <b>Housekeeper.</b>                |         |   |          |    |          |   |          |   |          |   |                |     |        |     |
| Influenza .....                    |         |   |          |    |          |   |          |   |          |   | ...            | I   | ...    | I   |
| <b>Servant.</b>                    |         |   |          |    |          |   |          |   |          |   |                |     |        |     |
| Inquest .....                      |         |   |          | I  |          |   |          |   |          |   | ...            | ... | ...    | I   |
| <b>Weavers.</b>                    |         |   |          |    |          |   |          |   |          |   |                |     |        |     |
| Bronchitis .....                   |         |   |          |    |          |   |          |   | I        | I | I              | ... | 2      | I   |
| Heart Disease .....                | I       |   |          |    | 2        | 3 | I        |   | 2        |   | ...            | ... | 6      | 3   |
| Scarlet Fever .....                |         |   |          | I  |          |   |          |   |          |   | ...            | ... | ...    | I   |
| Acute Rheumatism .....             |         | I | I        |    |          |   |          |   |          |   | ...            | ... | I      | I   |
| Bright's Disease .....             |         |   |          | 3  | I        |   |          | I |          |   | ...            | ... | I      | 4   |
| Cancer .....                       |         |   |          |    |          |   |          | I |          |   | ...            | ... | I      | ... |
| Apoplexy .....                     |         |   |          |    |          |   | 2        |   | 2        | I | ...            | ... | 4      | I   |
| Enteritis .....                    |         |   |          |    |          |   |          |   |          | 2 | ...            | ... | ...    | 2   |
| Phthisis .....                     |         |   | I        | 3  | I        | I | I        |   |          |   | ...            | ... | 3      | 4   |
| Influenza .....                    |         |   |          |    |          |   |          | I |          |   | I              | ... | I      | I   |
| Cancer of Stomach .....            |         |   |          |    |          |   | I        |   |          |   | ...            | ... | I      | ... |
| Enteric Fever .....                |         |   |          | I  |          |   |          |   |          |   | ...            | ... | ...    | I   |
| Cancer of Breast .....             |         |   |          |    |          |   |          | I |          | I | ...            | ... | ...    | 2   |
| Parturition .....                  |         |   |          | I  |          |   |          |   |          |   | ...            | ... | ...    | I   |
| Perforation of Bowel .....         |         | I |          |    |          |   |          |   |          |   | ...            | ... | ...    | I   |
| Puerperal Fever .....              |         |   |          |    |          | I |          |   |          |   | ...            | ... | ...    | I   |
| Septicæmia .....                   |         |   |          |    |          | I |          |   |          |   | ...            | ... | ...    | I   |
| Suicide .....                      |         |   |          |    |          |   | I        |   |          |   | ...            | ... | I      | ... |
| Diabetes .....                     |         |   |          |    |          |   |          |   | I        |   | ...            | ... | I      | ... |
| Inquest .....                      |         |   |          |    |          |   |          |   |          |   | I              | ... | I      | ... |
| Cerebral Sclerosis .....           |         |   |          |    |          |   | I        |   |          |   | ...            | ... | I      | ... |
| Pneumonia .....                    |         | I |          |    |          | I |          |   |          |   | ...            | ... | ...    | 2   |
| Neurasthenia .....                 |         |   |          |    |          |   |          |   |          |   | I              | ... | I      | ... |
| Perforating Ulcer of Stomach ..... |         |   |          | I  |          |   |          |   |          |   | ...            | ... | I      | ... |
| Cystitis .....                     |         |   |          |    |          |   |          |   |          |   | I              | ... | I      | ... |
| Embolism of Arteries of Foot ..... |         |   |          |    |          |   |          |   |          |   | I              | ... | I      | ... |
| Abortion Pelvic Cellulitis .....   |         |   |          | I  |          |   |          |   |          |   | ...            | ... | ...    | I   |
|                                    | I       | 3 | 3        | 10 | 4        | 7 | 7        | 3 | 7        | 5 | 6              | ... | 28     | 28  |

**TABLE XVI.—(Continued).**

| DISEASE.                | 5 to 15 |   | 15 to 25 |   | 25 to 35 |   | 35 to 45 |   | 45 to 65 |   | 65 and upwards |   | Total. |   |
|-------------------------|---------|---|----------|---|----------|---|----------|---|----------|---|----------------|---|--------|---|
|                         | M       | F | M        | F | M        | F | M        | F | M        | F | M              | F | M      | F |
| <b>Charwoman.</b>       |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Pneumonia .....         |         |   |          |   |          |   | I        |   |          |   |                |   |        | I |
| <b>Winders.</b>         |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Phthisis .....          |         |   |          | 2 |          | 2 |          |   |          |   |                |   |        | 4 |
| Cancer of Stomach ..... |         |   |          |   |          |   |          |   | I        |   |                |   |        | I |
| Gastritis .....         |         |   |          |   |          |   |          |   | I        |   |                |   |        | I |
| Heart Disease .....     |         |   |          | I |          | I |          |   |          |   |                |   |        | 2 |
| Parturition .....       |         |   |          |   |          | I |          |   |          |   |                |   |        | I |
|                         |         |   |          | 3 |          | 4 |          |   | 2        |   |                |   |        | 9 |
| <b>Warper.</b>          |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Parturition .....       |         |   |          |   |          | 1 |          |   |          |   |                |   |        | I |
| <b>Reachers In.</b>     |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Diabetes .....          |         | I |          |   |          |   |          |   |          |   |                |   |        | I |
| Acute Rheumatism .....  | I       |   |          |   |          |   |          |   |          |   |                |   | I      |   |
|                         | I       | I |          |   |          |   |          |   |          |   |                |   | I      | I |
| <b>Cotton Spinners.</b> |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Gastric Ulcer .....     |         |   |          |   | I        |   |          |   |          |   |                |   | I      |   |
| Bronchial Asthma .....  |         |   |          |   |          |   |          |   |          | I |                |   | I      |   |
| Injuries .....          |         |   |          |   |          |   |          | I |          |   |                |   | I      |   |
| Phthisis .....          |         |   |          |   |          |   |          | I |          |   |                |   | I      |   |
| Bright's Disease .....  |         |   |          |   |          | I |          |   |          |   |                |   | I      |   |
| Heart Disease .....     |         |   |          |   |          |   |          |   | I        |   |                |   | I      |   |
|                         |         |   |          |   | I        |   | I        |   | 2        |   | 2              |   | 6      |   |

TABLE XVI.—(Continued).

| DISEASE.                          | 5 to 15 |   | 15 to 25 |   | 25 to 35 |   | 35 to 45 |   | 45 to 65 |   | 65 and upwards |   | Total. |   |
|-----------------------------------|---------|---|----------|---|----------|---|----------|---|----------|---|----------------|---|--------|---|
|                                   | M       | F | M        | F | M        | F | M        | F | M        | F | M              | F | M      | F |
| <b>Cotton Twister.</b>            |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Heart Disease .....               |         |   |          |   |          |   | I        |   |          |   |                |   | I      |   |
| <b>Cotton Cloth Looker.</b>       |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Phthisis .....                    |         |   |          |   |          |   |          |   | I        |   |                |   | I      |   |
| <b>Cotton Rover.</b>              |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Puerperal Fever .....             |         |   |          |   |          |   | I        |   |          |   |                |   |        | I |
| <b>Cotton Cardroom Operative.</b> |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Abscess of Prostate .....         |         |   |          |   |          |   |          |   | I        |   |                |   | I      |   |
| <b>Cotton Bobbin Carrier.</b>     |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Bronchitis .....                  |         |   |          |   |          |   |          |   | I        |   |                |   | I      |   |
| <b>Cotton Mill Managers.</b>      |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Heart Disease .....               |         |   |          |   |          |   |          |   | I        |   | I              |   | 2      |   |
| Bronchitis .....                  |         |   |          |   |          |   |          |   | I        |   |                |   | I      |   |
|                                   |         |   |          |   |          |   |          |   | 2        |   | I              |   | 3      |   |
| <b>Cotton Manufacturers.</b>      |         |   |          |   |          |   |          |   |          |   |                |   |        |   |
| Pneumonia .....                   |         |   |          |   |          |   | I        |   |          |   |                |   | I      |   |
| Bronchitis .....                  |         |   |          |   |          |   |          |   |          |   | I              |   | I      |   |
|                                   |         |   |          |   |          |   | I        |   |          |   | I              |   | 2      |   |

**TABLE XVI.—(Continued).**

| DISEASE.                         | 5 to 15 |   | 15 to 25 |   | 25 to 35 |     | 35 to 45 |     | 45 to 65 |     | 65 and upwards |     | Total. |     |
|----------------------------------|---------|---|----------|---|----------|-----|----------|-----|----------|-----|----------------|-----|--------|-----|
|                                  | M       | F | M        | F | M        | F   | M        | F   | M        | F   | M              | F   | M      | F   |
| <b>Cotton Mill Warehouseman.</b> |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Senile Decay.....                |         |   |          |   |          |     |          |     |          |     | I              | ... | I      | ... |
| <b>Cotton Mill Overlookers.</b>  |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Senile Decay.....                |         |   |          |   |          |     |          |     |          |     | I              | ... | I      | ... |
| Inquest .....                    |         |   |          |   |          |     |          | I   | ...      | ... | ...            | ... | I      | ... |
| Phthisis .....                   |         |   |          |   |          |     |          | I   | ...      | ... | ...            | ... | I      | ... |
|                                  |         |   |          |   |          |     |          | 2   | ...      | I   | ...            | ... | 3      | ... |
| <b>Cotton Sizer.</b>             |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Apoplexy .....                   |         |   |          |   |          |     |          | I   | ...      | ... | ...            | ... | I      | ... |
| <b>Cotton Bleacher.</b>          |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Bronchitis .....                 |         |   |          |   |          |     |          |     |          |     | I              | ... | I      | ... |
| <b>Coal Miners.</b>              |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Sarcoma of Neck .....            |         |   |          |   |          |     |          | I   | ...      | ... | ...            | ... | I      | ... |
| Phthisis .....                   |         |   |          |   |          |     |          | I   | ...      | ... | ...            | ... | I      | ... |
| Heart Disease .....              |         |   |          |   |          |     |          | 2   | ...      | I   | ...            | ... | 3      | ... |
| Uncertified .....                |         |   |          |   |          |     |          | I   | ...      | ... | ...            | ... | I      | ... |
|                                  |         |   |          |   |          |     |          | 5   | ...      | I   | ...            | ... | 6      | ... |
| <b>Painters.</b>                 |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Phthisis .....                   |         |   |          |   |          |     | I        | ... | ...      | ... | ...            | ... | I      | ... |
| Bright's Disease .....           |         |   |          |   | I        | ... | ...      | ... | ...      | ... | ...            | ... | I      | ... |
| Apoplexy .....                   |         |   |          |   |          |     |          | I   | ...      | ... | ...            | ... | I      | ... |
|                                  |         |   |          |   | I        | ... | I        | ... | I        | ... | ...            | ... | 3      | ... |

**TABLE XVI.—(Continued).**

| DISEASE. .                    | 5 to |   | 15 to |     | 25 to |   | 35 to |     | 45 to |     | 65 and  |     | Total. |     |
|-------------------------------|------|---|-------|-----|-------|---|-------|-----|-------|-----|---------|-----|--------|-----|
|                               | 15   |   | 25    |     | 35    |   | 45    |     | 65    |     | upwards |     |        |     |
|                               | M    | F | M     | F   | M     | F | M     | F   | M     | F   | M       | F   | M      | F   |
| <b>Coal Heaver. .</b>         |      |   |       |     |       |   |       |     |       |     |         |     |        |     |
| Senile Decay.....             |      |   |       |     |       |   |       |     | I     | ... | ...     | ... | I      | ... |
| <b>Drawer in Coal Mine.</b>   |      |   |       |     |       |   |       |     |       |     |         |     |        |     |
| Heart Disease .....           |      |   | I     | ... |       |   |       |     |       |     | ...     | ... | I      | ... |
| <b>Sanitary Pipe Moulder.</b> |      |   |       |     |       |   |       |     |       |     |         |     |        |     |
| Heart Disease .....           |      |   | I     | ... |       |   |       |     |       |     | ...     | ... | I      | ... |
| <b>Furnaceman.</b>            |      |   |       |     |       |   |       |     |       |     |         |     |        |     |
| Hodgkin's Disease .....       |      |   |       |     |       |   | I     | ... |       |     | ...     | ... | I      | ... |
| <b>Iron Moulder.</b>          |      |   |       |     |       |   |       |     |       |     |         |     |        |     |
| Suicide .....                 |      |   |       |     |       |   |       |     |       |     | I       | ... | I      | ... |
| <b>Engine Tenters.</b>        |      |   |       |     |       |   |       |     |       |     |         |     |        |     |
| Bright's Disease .....        |      |   |       |     |       |   |       |     | I     | ... | ...     | ... | I      | ... |
| Senile Decay.....             |      |   |       |     |       |   |       |     |       |     | I       | ... | I      | ... |
|                               |      |   |       |     |       |   |       |     | I     | ... | I       | ... | 2      | ... |
| <b>Mechanical Engineers.</b>  |      |   |       |     |       |   |       |     |       |     |         |     |        |     |
| Apoplexy .....                |      |   |       |     |       |   |       |     | I     | ... | ...     | ... | I      | ... |
| Phthisis .....                |      |   |       |     |       |   |       |     | I     | ... | ...     | ... | I      | ... |
|                               |      |   |       |     |       |   |       |     | 2     | ... | ...     | ... | 2      | ... |

**TABLE XVI.—(Continued).**

| DISEASE.                 | 5 to 15 |   | 15 to 25 |   | 25 to 35 |     | 35 to 45 |     | 45 to 65 |     | 65 and upwards |     | Total. |     |
|--------------------------|---------|---|----------|---|----------|-----|----------|-----|----------|-----|----------------|-----|--------|-----|
|                          | M       | F | M        | F | M        | F   | M        | F   | M        | F   | M              | F   | M      | F   |
| <b>Firebeaters.</b>      |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Bright's Disease .....   |         |   |          |   |          |     |          |     | I        | ... | ...            | ... | I      | ... |
| Suicide .....            |         |   |          |   |          |     |          |     | I        | ... | ...            | ... | I      | ... |
| Bronchitis .....         |         |   |          |   |          |     |          |     | I        | ... | ...            | ... | I      | ... |
|                          |         |   |          |   |          |     |          |     | 3        | ... | ...            | ... | 3      | ... |
| <b>Tin Plate Worker.</b> |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Pernicious Anæmia .....  |         |   |          |   |          |     |          |     |          |     | I              | ... | I      | ... |
| <b>Paper Maker.</b>      |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Appendicitis .....       |         |   |          |   |          |     |          |     | I        | ... | ...            | ... | I      | ... |
| Heart Disease .....      |         |   |          |   |          |     | I        | ... | ...      | ... | ...            | ... | I      | ... |
|                          |         |   |          |   |          |     | I        | ... | I        | ... | ...            | ... | 2      | ... |
| <b>Paper Stainer.</b>    |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Heart Disease .....      |         |   |          | I | ...      | ... | ...      | ... | ...      | ... | ...            | ... | I      | ... |
| <b>Packer.</b>           |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Injuries .....           |         |   |          |   |          |     |          |     |          |     | I              | ... | I      | ... |
| <b>Store Keeper.</b>     |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Cancer of Stomach .....  |         |   |          |   |          |     |          |     |          |     | I              | ... | I      | ... |
| <b>Shuttle Maker.</b>    |         |   |          |   |          |     |          |     |          |     |                |     |        |     |
| Phthisis .....           |         |   |          |   |          | I   | ...      | ... | ...      | ... | ...            | ... | I      | ... |

**TABLE XVI.—(Continued).**

| DISEASE.                        | 5 to |     | 15 to |     | 25 to |   | 35 to |   | 45 to |     | 65 and  |     | Total. |     |
|---------------------------------|------|-----|-------|-----|-------|---|-------|---|-------|-----|---------|-----|--------|-----|
|                                 | 15   |     | 25    |     | 35    |   | 45    |   | 65    |     | upwards |     |        |     |
|                                 | M    | F   | M     | F   | M     | F | M     | F | M     | F   | M       | F   | M      | F   |
| <b>Joiners.</b>                 |      |     |       |     |       |   |       |   |       |     |         |     |        |     |
| Bronchitis .....                |      |     |       |     |       |   |       |   |       |     | I       | ... | I      | ... |
| Hodgkin's Disease .....         |      |     | I     |     |       |   |       |   |       |     | ...     | ... | I      | ... |
| Heart Disease .....             |      |     |       |     |       |   |       |   |       |     | I       | ... | I      | ... |
| Influenza .....                 |      |     |       |     |       |   |       |   | I     | ... | ...     | ... | I      | ... |
| Senile Decay .....              |      |     |       |     |       |   |       |   |       |     | I       | ... | I      | ... |
|                                 | ...  | ... | I     | ... |       |   |       |   | I     | ... | 3       | ... | 5      | ... |
| <b>Farmers.</b>                 |      |     |       |     |       |   |       |   |       |     |         |     |        |     |
| Apoplexy .....                  |      |     |       |     |       |   |       |   |       |     | I       | ... | I      | ... |
| Pneumonia .....                 |      |     |       |     |       |   |       |   | I     | ... | ...     | ... | I      | ... |
|                                 | ...  | ... |       |     |       |   |       |   | I     | ... | I       | ... | 2      | ... |
| <b>Nurseryman.</b>              |      |     |       |     |       |   |       |   |       |     |         |     |        |     |
| Pneumonia .....                 |      |     |       |     |       |   |       |   |       |     | I       | ... | I      | ... |
| <b>Bill Poster (Master).</b>    |      |     |       |     |       |   |       |   |       |     |         |     |        |     |
| Gastric Ulcer .....             |      |     |       |     |       |   |       |   |       |     | I       | ... | I      | ... |
| <b>Rate Collector (Retired)</b> |      |     |       |     |       |   |       |   |       |     |         |     |        |     |
| Gangrene of Foot .....          |      |     |       |     |       |   |       |   |       |     | I       | ... | I      | ... |
| <b>Brick Layers.</b>            |      |     |       |     |       |   |       |   |       |     |         |     |        |     |
| Suicide .....                   |      |     |       |     |       |   |       |   | I     | ... | ...     | ... | I      | ... |
| Phthisis .....                  |      |     |       |     |       |   |       |   | I     | ... | ...     | ... | I      | ... |
|                                 | ...  | ... |       |     |       |   |       |   | 2     | ... | ...     | ... | 2      | ... |

**TABLE XVI.—(Continued).**

| DISEASE.                | 5 to 15 |    | 15 to 25 |    | 25 to 35 |    | 35 to 45 |    | 45 to 65 |    | 65 and upwards |    | Total. |    |
|-------------------------|---------|----|----------|----|----------|----|----------|----|----------|----|----------------|----|--------|----|
|                         | M       | F  | M        | F  | M        | F  | M        | F  | M        | F  | M              | F  | M      | F  |
| <b>Stone Quarrlers.</b> |         |    |          |    |          |    |          |    |          |    |                |    |        |    |
| Heart Disease .....     | ..      | .. | ..       | .. | ..       | .. | ..       | .. | I        | .. | ..             | .. | I      | .. |
| Gastric Ulcer .....     | ..      | .. | ..       | .. | ..       | .. | ..       | .. | I        | .. | ..             | .. | I      | .. |
|                         | ..      | .. | ..       | .. | ..       | .. | ..       | .. | 2        | .. | ..             | .. | 2      | .. |
| <b>Stone Mason.</b>     |         |    |          |    |          |    |          |    |          |    |                |    |        |    |
| Phthisis .....          | ..      | .. | ..       | .. | ..       | .. | ..       | .. | I        | .. | ..             | .. | I      | .. |
| <b>Stone Waller.</b>    |         |    |          |    |          |    |          |    |          |    |                |    |        |    |
| Senile Decay .....      | ..      | .. | ..       | .. | ..       | .. | ..       | .. | ..       | .. | I              | .. | I      | .. |
| <b>Flaggers.</b>        |         |    |          |    |          |    |          |    |          |    |                |    |        |    |
| Inquest .....           | ..      | .. | ..       | .. | ..       | .. | ..       | .. | ..       | .. | I              | .. | I      | .. |
| Injuries .....          | ..      | .. | ..       | .. | ..       | .. | ..       | .. | I        | .. | ..             | .. | I      | .. |
|                         | ..      | .. | ..       | .. | ..       | .. | ..       | .. | I        | .. | I              | .. | 2      | .. |
| <b>Carters.</b>         |         |    |          |    |          |    |          |    |          |    |                |    |        |    |
| Gastritis .....         | ..      | .. | ..       | .. | ..       | .. | ..       | .. | I        | .. | ..             | .. | I      | .. |
| Apoplexy .....          | ..      | .. | ..       | .. | ..       | .. | ..       | .. | I        | .. | ..             | .. | I      | .. |
| Pneumonia .....         | ..      | .. | ..       | .. | I        | .. | I        | .. | ..       | .. | ..             | .. | 2      | .. |
| Acute Rheumatism .....  | ..      | .. | ..       | .. | I        | .. | ..       | .. | ..       | .. | ..             | .. | I      | .. |
| Senile Decay .....      | ..      | .. | ..       | .. | ..       | .. | ..       | .. | ..       | .. | I              | .. | I      | .. |
|                         | ..      | .. | ..       | .. | 2        | .. | I        | .. | 2        | .. | I              | .. | 6      | .. |
| <b>Wheelwright.</b>     |         |    |          |    |          |    |          |    |          |    |                |    |        |    |
| Heart Disease .....     | ..      | .. | I        | .. | ..       | .. | ..       | .. | ..       | .. | ..             | .. | I      | .. |

**TABLE XVI.—(Continued).**

| DISEASE.                | 5 to 15 |   | 15 to 25 |   | 25 to 35 |   | 35 to 45 |   | 45 to 65 |     | 65 and upwards |     | Total. |     |
|-------------------------|---------|---|----------|---|----------|---|----------|---|----------|-----|----------------|-----|--------|-----|
|                         | M       | F | M        | F | M        | F | M        | F | M        | F   | M              | F   | M      | F   |
| <b>Librarian.</b>       |         |   |          |   |          |   |          |   |          |     |                |     |        |     |
| Uncertified .....       |         |   |          |   |          |   |          |   | 1        | ... | ...            | ... | 1      | ... |
| <b>Insurance Agent.</b> |         |   |          |   |          |   |          |   |          |     |                |     |        |     |
| Bronchitis .....        |         |   |          |   |          |   |          |   | 1        | ... | ...            | ... | 1      | ... |
| <b>Coal Merchant.</b>   |         |   |          |   |          |   |          |   |          |     |                |     |        |     |
| Erysipelas .....        |         |   |          |   |          |   |          |   | 1        | ... | ...            | ... | 1      | ... |
| <b>Drapers.</b>         |         |   |          |   |          |   |          |   |          |     |                |     |        |     |
| Cancer of Bladder ..... |         |   |          |   |          |   |          |   |          |     | 1              | ... | 1      | ... |
| Bronchitis .....        |         |   |          |   |          |   |          |   |          |     | 1              | ... | 1      | ... |
|                         |         |   |          |   |          |   |          |   |          |     | 2              | ... | 2      | ... |
| <b>Butcher.</b>         |         |   |          |   |          |   |          |   |          |     |                |     |        |     |
| Diarrhoea .....         |         |   |          |   |          |   |          |   |          |     | 1              | ... | 1      | ... |
| <b>Grocer.</b>          |         |   |          |   |          |   |          |   |          |     |                |     |        |     |
| Bright's Disease .....  |         |   |          |   |          |   |          |   |          |     | 1              | ... | 1      | ... |
| <b>Shoe Makers.</b>     |         |   |          |   |          |   |          |   |          |     |                |     |        |     |
| Bright's Disease .....  |         |   |          |   |          |   |          |   | 1        | ... | ...            | ... | 1      | ... |
| Heart Disease .....     |         |   |          |   |          |   |          |   |          |     | 1              | ... | 1      | ... |
|                         |         |   |          |   |          |   |          |   | 1        | ... | 1              | ... | 2      | ... |

**TABLE XVI.—(Continued).**

| DISEASE.                        | 5 to<br>15 |   | 15 to<br>25 |   | 25 to<br>35 |   | 35 to<br>45 |   | 45 to<br>65 |   | 65 and<br>upwards |   | Total. |   |
|---------------------------------|------------|---|-------------|---|-------------|---|-------------|---|-------------|---|-------------------|---|--------|---|
|                                 | M          | F | M           | F | M           | F | M           | F | M           | F | M                 | F | M      | F |
| <b>Outfitter.</b>               |            |   |             |   |             |   |             |   |             |   |                   |   |        |   |
| Suicide .....                   |            |   |             |   |             |   | I           |   |             |   |                   |   | I      |   |
| <b>Clogger.</b>                 |            |   |             |   |             |   |             |   |             |   |                   |   |        |   |
| Heart Disease .....             |            |   |             |   |             |   |             |   |             | I |                   |   | I      |   |
| <b>General Labourers.</b>       |            |   |             |   |             |   |             |   |             |   |                   |   |        |   |
| Bronchitis .....                |            |   |             |   |             |   |             | 2 |             | I |                   |   | 3      |   |
| Gangrene of Foot .....          |            |   |             |   |             |   |             | I |             |   |                   |   | I      |   |
| Phthisis .....                  |            |   | I           |   |             |   | I           |   | 3           |   |                   |   | 5      |   |
| Inquest .....                   |            |   |             |   |             |   | I           |   | 2           |   |                   |   | 3      |   |
| Enteric Fever .....             |            |   |             |   | 2           |   |             |   |             |   |                   |   | 2      |   |
| Heart Disease .....             |            |   |             |   |             |   | I           |   | I           |   |                   |   | 2      |   |
| Cancer of Cæcum .....           |            |   |             |   |             |   |             | I |             |   |                   |   | I      |   |
| Hepatitis .....                 |            |   |             |   |             |   |             | I |             |   |                   |   | I      |   |
| Pneumonia .....                 |            |   |             |   |             |   | I           |   |             |   |                   |   | I      |   |
| Bright's Disease .....          |            |   |             |   | I           |   |             |   |             |   |                   |   | I      |   |
| Apoplexy .....                  |            |   |             |   |             |   |             | I |             | I |                   |   | 2      |   |
| Injury .....                    |            |   |             |   |             |   |             |   |             | I |                   |   | I      |   |
| Appendicitis .....              |            |   |             |   |             |   |             |   |             | I |                   |   | I      |   |
| Cancer of Liver .....           |            |   |             |   |             |   |             |   |             | I |                   |   | I      |   |
| Thoracic Aneurism .....         |            |   |             |   |             |   |             | I |             |   |                   |   | I      |   |
| Suicide .....                   |            |   |             |   | I           |   |             |   |             |   |                   |   | I      |   |
| Senile Decay .....              |            |   |             |   |             |   |             |   |             | I |                   |   | I      |   |
| Cirrhosis of Liver .....        |            |   |             |   |             |   |             | I |             |   |                   |   | I      |   |
|                                 |            |   | I           |   | 4           |   | 4           | I | 4           |   | 6                 |   | 29     |   |
| <b>Brick Setters' Labourer.</b> |            |   |             |   |             |   |             |   |             |   |                   |   |        |   |
| Locomotor Ataxia .....          |            |   |             |   |             |   | I           |   |             |   |                   |   | I      |   |
| <b>Fish Dealer.</b>             |            |   |             |   |             |   |             |   |             |   |                   |   |        |   |
| Apoplexy .....                  |            |   |             |   |             |   |             | I |             |   |                   |   | I      |   |

**TABLE XVI.—(Continued).**

| DISEASE.                           | 5 to 15 |   | 15 to 25 |     | 25 to 35 |     | 35 to 45 |     | 45 to 65 |     | 65 and upwards |     | Total. |     |
|------------------------------------|---------|---|----------|-----|----------|-----|----------|-----|----------|-----|----------------|-----|--------|-----|
|                                    | M       | F | M        | F   | M        | F   | M        | F   | M        | F   | M              | F   | M      | F   |
| <b>Night Watchman.</b>             |         |   |          |     |          |     |          |     |          |     |                |     |        |     |
| Phthisis .....                     |         |   |          |     |          |     |          |     |          |     | I              | ... | I      | ... |
| Apoplexy .....                     |         |   |          |     |          |     |          |     |          |     | I              | ... | I      | ... |
|                                    |         |   |          |     |          |     |          |     |          |     | 2              | ... | 2      | ... |
| <b>Licensed Victuallers.</b>       |         |   |          |     |          |     |          |     |          |     |                |     |        |     |
| Apoplexy .....                     |         |   |          |     |          |     |          |     | I        | ... | ...            | ... | I      | ... |
| Cirrhosis of Liver .....           |         |   |          |     |          |     |          |     | I        | ... | ...            | ... | I      | ... |
| Uræmia .....                       |         |   |          |     |          |     |          |     | I        | ... | ...            | ... | I      | ... |
| Gall Stones .....                  |         |   |          |     |          |     | I        | ... | ...      | ... | ...            | ... | I      | ... |
|                                    |         |   |          |     |          |     | I        | ... | 2        | I   | ...            | ... | 3      | I   |
| <b>Dress Makers and Milliners.</b> |         |   |          |     |          |     |          |     |          |     |                |     |        |     |
| Pleurisy .....                     |         |   |          | I   | ...      | ... | ...      | ... | ...      | ... | ...            | ... | I      | ... |
| Bright's Disease .....             |         |   |          | ... | ...      | ... | ...      | ... | I        | ... | ...            | ... | I      | ... |
|                                    |         |   |          | I   | ...      | ... | ...      | ... | I        | ... | ...            | ... | 2      | ... |
| <b>School Teacher.</b>             |         |   |          |     |          |     |          |     |          |     |                |     |        |     |
| Heart Disease .....                |         |   |          | I   | ...      | ... | ...      | ... | ...      | ... | ...            | ... | I      | ... |
| <b>Teacher of Music.</b>           |         |   |          |     |          |     |          |     |          |     |                |     |        |     |
| Gall Stones .....                  |         |   |          |     |          |     |          | I   | ...      | ... | ...            | ... | I      | ... |
| <b>Electrician.</b>                |         |   |          |     |          |     |          |     |          |     |                |     |        |     |
| Phthisis .....                     |         |   |          | ... | I        | ... | ...      | ... | ...      | ... | ...            | ... | I      | ... |

TABLE XVII.

Estimated Population, Number of Deaths, and Death-rates from all Causes,  
from Zymotic Diseases, of Children under 1 year, and Persons  
60 years and upwards, during the last 15 years.

| YEAR. | Estimated<br>Population at<br>Middle<br>of Year. | Total Deaths<br>from<br>all causes. | Death Rate<br>per<br>1,000 of<br>Population. | Total Deaths<br>from Seven<br>Principal<br>Zymotic<br>Diseases. | Death Rate<br>from Zymotic<br>Diseases<br>per 1,000 of<br>Population. | Total Deaths<br>under<br>1 Year of<br>Age. | Percentage of<br>Deaths<br>under 1 Year<br>to Total<br>Deaths. | Total Deaths<br>of Persons<br>60 Years and<br>Upwards. | Percentage of<br>Deaths of<br>Aged<br>Persons to<br>Total Deaths. |
|-------|--------------------------------------------------|-------------------------------------|----------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|
| 1891  | 34,192                                           | 660                                 | 19.3                                         | 60                                                              | 1.7                                                                   | 168                                        | 25.4                                                           | 126                                                    | 19.0                                                              |
| 1892  | 34,591                                           | 641                                 | 18.5                                         | 67                                                              | 1.9                                                                   | 177                                        | 27.6                                                           | 105                                                    | 16.3                                                              |
| 1893  | 34,990                                           | 677                                 | 19.3                                         | 79                                                              | 2.2                                                                   | 184                                        | 27.1                                                           | 141                                                    | 20.8                                                              |
| 1894  | 35,389                                           | 542                                 | 15.3                                         | 40                                                              | 1.1                                                                   | 130                                        | 23.9                                                           | 107                                                    | 19.7                                                              |
| 1895  | 35,788                                           | 640                                 | 17.8                                         | 77                                                              | 2.1                                                                   | 179                                        | 27.9                                                           | 124                                                    | 19.3                                                              |
| 1896  | 36,188                                           | 627                                 | 17.3                                         | 81                                                              | 2.2                                                                   | 187                                        | 29.8                                                           | 132                                                    | 21.0                                                              |
| 1897  | 36,588                                           | 651                                 | 17.3                                         | 63                                                              | 1.6                                                                   | 182                                        | 27.9                                                           | 135                                                    | 20.7                                                              |
| 1898  | 36,989                                           | 632                                 | 17.8                                         | 78                                                              | 2.0                                                                   | 199                                        | 31.4                                                           | 131                                                    | 20.7                                                              |
| 1899  | 37,392                                           | 647                                 | 17.0                                         | 89                                                              | 2.3                                                                   | 200                                        | 30.9                                                           | 119                                                    | 18.3                                                              |
| 1900  | 37,796                                           | 789                                 | 17.3                                         | 112                                                             | 2.8                                                                   | 188                                        | 23.8                                                           | 183                                                    | 23.1                                                              |
| 1901  | 38,212                                           | 620                                 | 20.8                                         | 82                                                              | 2.1                                                                   | 145                                        | 23.3                                                           | 156                                                    | 25.1                                                              |
| 1902  | 38,712                                           | 569                                 | 14.6                                         | 40                                                              | 1.5                                                                   | 134                                        | 23.7                                                           | 143                                                    | 25.1                                                              |
| 1903  | 39,114                                           | 501                                 | 12.8                                         | 30                                                              | 0.76                                                                  | 117                                        | 23.3                                                           | 147                                                    | 29.3                                                              |
| 1904  | 39,516                                           | 606                                 | 15.2                                         | 107                                                             | 2.7                                                                   | 123                                        | 20.2                                                           | 149                                                    | 24.5                                                              |
| 1905  | 39,918                                           | 562                                 | 14.0                                         | 40                                                              | 1.00                                                                  | 118                                        | 20.9                                                           | 65 and up'ds<br>106                                    | 18.8                                                              |

TABLE XVIII.

Deaths during the Fifteen years, 1891 to 1905 inclusive, of Children under 5 years and Persons 5 years and upwards.

| UNDER 5 YEARS OF AGE. |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 5 YEARS AND UPWARDS. |      |      |      |      |      |      |      |      |      |      |      |      |  |  |  |  |
|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|--|
| 1891                  | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1891 | 1892 | 1893                 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 |  |  |  |  |
| Smallpox.....         | 21   | 25   | ...  | 41   | 14   | 28   | 25   | 8    | 42   | 7    | 3    | 12   | 27   | 3    | 3    | 3    | 1                    | ...  | ...  | ...  | ...  | 2    | ...  | ...  | ...  | ...  | 1    | ...  |      |  |  |  |  |
| Measles.....          | 2    | 13   | 7    | 2    | 2    | 1    | 15   | 7    | 8    | 7    | 3    | 5    | 10   | 14   | ...  | 5    | ...                  | ...  | ...  | ...  | 2    | ...  | ...  | ...  | ...  | ...  | 2    | 1    |      |  |  |  |  |
| Scarlet Fever.....    | 1    | 4    | 2    | ...  | 2    | 1    | 1    | 4    | 18   | 19   | 12   | 4    | 6    | 1    | ...  | ...  | ...                  | ...  | ...  | ...  | 1    | ...  | ...  | ...  | ...  | ...  | 12   | 7    |      |  |  |  |  |
| Diphtheria.....       | 2    | 26   | 17   | 3    | 2    | 9    | ...  | 15   | 8    | 11   | ...  | 8    | 28   | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | 12   | 2    |      |  |  |  |  |
| Whooping Cough...     | 17   | 17   | 13   | 1    | 10   | 2    | 1    | 3    | 2    | 10   | 5    | ...  | ...  | ...  | ...  | 3    | 4                    | 10   | 2    | 1    | 2    | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Croup.....            | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Continued Fevers :    | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Typhus.....           | 2    | 2    | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Typhoid.....          | 2    | 1    | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Others.....           | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Diarrhoea and         | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Dysentery.....        | 10   | 5    | 20   | 6    | 18   | 17   | 11   | 42   | 25   | 11   | 14   | 4    | 9    | 3    | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Cholera.....          | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Rheumatic Fever...    | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Erysipelas.....       | ...  | 1    | 1    | ...  | 2    | 2    | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Pyæmia.....           | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Puerperal Fever...    | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Ague.....             | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Phthisis.....         | ...  | ...  | 1    | ...  | ...  | 1    | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Bronchitis.....       | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...                  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  | ...  |      |  |  |  |  |
| Pneumonia & Pleurisy  | 68   | 63   | 84   | 49   | 51   | 82   | 64   | 58   | 67   | 73   | 59   | 52   | 41   | 50   | 44   | 119  | 93                   | 82   | 52   | 72   | 53   | 93   | 60   | 65   | 89   | 72   | 70   | 53   |      |  |  |  |  |
| Heart Disease.....    | 1    | ...  | ...  | ...  | 1    | ...  | ...  | 1    | 4    | 1    | 3    | 1    | 1    | 1    | 2    | 27   | 35                   | 57   | 47   | 43   | 37   | 35   | 47   | 55   | 53   | 55   | 57   | 53   |      |  |  |  |  |
| Injuries.....         | 4    | 3    | ...  | ...  | 5    | 2    | 3    | 4    | 4    | 6    | 4    | ...  | 3    | ...  | 5    | 15   | 15                   | 13   | 5    | 20   | 15   | 9    | 4    | 6    | 4    | 7    | 1    | 4    |      |  |  |  |  |
| All other Diseases... | 153  | 133  | 126  | 118  | 138  | 153  | 150  | 143  | 145  | 163  | 114  | 106  | 97   | 96   | 106  | 171  | 170                  | 168  | 180  | 163  | 184  | 197  | 189  | 172  | 250  | 157  | 281  | 192  |      |  |  |  |  |

# GOVERNMENT TABLE I.

**Vital Statistics of whole District during 1905 and previous years.**  
**(Population Corrected for Intercensal Periods).**

NAME OF DISTRICT—DARWEN.

| YEAR.                              | Population<br>Estimated<br>to Middle<br>of each<br>Year. | BIRTHS. |            | TOTAL DEATHS REGISTERED<br>IN THE DISTRICT. |                                                      |              |            |
|------------------------------------|----------------------------------------------------------|---------|------------|---------------------------------------------|------------------------------------------------------|--------------|------------|
|                                    |                                                          | Number. | *<br>Rate. | Under 1 Year.                               |                                                      | At All Ages. |            |
|                                    |                                                          |         |            | Num-<br>ber.                                | Rate per<br>1,000<br>Births<br>Regis-<br>tered.<br>6 | Num-<br>ber. | *<br>Rate. |
| 1                                  | 2                                                        | 3       | 4          | 5                                           | 6                                                    | 7            | 8          |
| 1895                               | 35,788                                                   | 1,128   | 31.5       | 179                                         | 158                                                  | 640          | 17.8       |
| 1896                               | 36,188                                                   | 1,032   | 28.5       | 187                                         | 181                                                  | 627          | 17.3       |
| 1897                               | 36,588                                                   | 1,114   | 30.4       | 182                                         | 163                                                  | 651          | 17.7       |
| 1898                               | 36,989                                                   | 1,131   | 30.5       | 199                                         | 175                                                  | 632          | 17.0       |
| 1899                               | 37,392                                                   | 1,062   | 28.4       | 200                                         | 188                                                  | 647          | 17.3       |
| 1900                               | 37,796                                                   | 980     | 25.9       | 188                                         | 191                                                  | 789          | 20.8       |
| 1901                               | 38,212                                                   | 858     | 22.4       | 145                                         | 168                                                  | 620          | 16.2       |
| 1902                               | 38,712                                                   | 891     | 23.0       | 135                                         | 151                                                  | 569          | 14.6       |
| 1903                               | 39,114                                                   | 941     | 24.0       | 117                                         | 124                                                  | 501          | 12.8       |
| 1904                               | 39,516                                                   | 820     | 20.7       | 123                                         | 150                                                  | 606          | 15.3       |
| Averages<br>for years<br>1895-1904 | 37,629                                                   | 995     | 26.4       | 165                                         | 165                                                  | 628          | 16.6       |
| 1905                               | 39,918                                                   | 818     | 20.4       | 118                                         | 144                                                  | 562          | 14.0       |

\* Rates in Columns 4 and 8 calculated per 1,000 of  
estimated population.

Area of District in acres (exclusive of area covered by water), 5,919.

|                                           |        |                         |
|-------------------------------------------|--------|-------------------------|
| Total population at all ages .....        | 38,212 | } At Census<br>of 1901. |
| Number of inhabited houses .....          | 8,432  |                         |
| Average number of persons per house ..... | 4.5    |                         |

# GOVERNMENT TABLE II.

## Vital Statistics of separate Localities in 1905 and previous years.

### NAME OF DISTRICT—DARWEN.

| Names of Localities.                     | 1. Central Ward.                                     |                       |                        |                         | 2. West-Central Ward.                                |                       |                        |                         | 3. North-East Ward.                                  |                       |                        |                         | 4. North-West Ward.                                  |                       |                        |                         | 5. South-East Ward.                                  |                       |                        |                         | 6. South-West Ward.                                  |                       |                        |                         | 7. Borough.                                          |                       |                        |                         |
|------------------------------------------|------------------------------------------------------|-----------------------|------------------------|-------------------------|------------------------------------------------------|-----------------------|------------------------|-------------------------|------------------------------------------------------|-----------------------|------------------------|-------------------------|------------------------------------------------------|-----------------------|------------------------|-------------------------|------------------------------------------------------|-----------------------|------------------------|-------------------------|------------------------------------------------------|-----------------------|------------------------|-------------------------|------------------------------------------------------|-----------------------|------------------------|-------------------------|
| YEAR.                                    | Population esti-<br>mated to middle<br>of each Year. | Births<br>Registered. | Deaths at all<br>Ages. | Deaths under<br>1 Year. | Population esti-<br>mated to middle<br>of each Year. | Births<br>Registered. | Deaths at all<br>Ages. | Deaths under<br>1 Year. | Population esti-<br>mated to middle<br>of each Year. | Births<br>Registered. | Deaths at all<br>Ages. | Deaths under<br>1 Year. | Population esti-<br>mated to middle<br>of each Year. | Births<br>Registered. | Deaths at all<br>Ages. | Deaths under<br>1 Year. | Population esti-<br>mated to middle<br>of each Year. | Births<br>Registered. | Deaths at all<br>Ages. | Deaths under<br>1 Year. | Population esti-<br>mated to middle<br>of each Year. | Births<br>Registered. | Deaths at all<br>Ages. | Deaths under<br>1 Year. | Population esti-<br>mated to middle<br>of each Year. | Births<br>Registered. | Deaths at all<br>Ages. | Deaths under<br>1 Year. |
| 1895...                                  | 6498                                                 | ...                   | 109                    | 34                      | 3821                                                 | ...                   | 64                     | 20                      | 8146                                                 | ...                   | 173                    | 57                      | 4912                                                 | ...                   | 70                     | 20                      | 6061                                                 | ...                   | 102                    | 18                      | 6350                                                 | ...                   | 122                    | 30                      | 35788                                                | 1128                  | 640                    | 179                     |
| 1896...                                  | 6367                                                 | ...                   | 90                     | 22                      | 3827                                                 | ...                   | 69                     | 23                      | 8300                                                 | ...                   | 144                    | 99                      | 4924                                                 | ...                   | 87                     | 25                      | 6134                                                 | ...                   | 114                    | 31                      | 6436                                                 | ...                   | 123                    | 37                      | 36188                                                | 1032                  | 627                    | 187                     |
| 1897...                                  | 6636                                                 | ...                   | 112                    | 36                      | 3833                                                 | ...                   | 59                     | 14                      | 8454                                                 | ...                   | 159                    | 53                      | 4936                                                 | ...                   | 84                     | 8                       | 6207                                                 | ...                   | 113                    | 32                      | 6522                                                 | ...                   | 124                    | 39                      | 36588                                                | 1114                  | 651                    | 182                     |
| 1898...                                  | 6705                                                 | 210                   | 112                    | 41                      | 3839                                                 | 109                   | 72                     | 21                      | 8609                                                 | 292                   | 156                    | 64                      | 4948                                                 | 127                   | 78                     | 15                      | 6280                                                 | 188                   | 94                     | 23                      | 6608                                                 | 213                   | 120                    | 35                      | 36939                                                | 1131                  | 632                    | 199                     |
| 1899...                                  | 6776                                                 | 181                   | 130                    | 39                      | 3845                                                 | 95                    | 62                     | 14                      | 8764                                                 | 296                   | 136                    | 56                      | 4960                                                 | 123                   | 66                     | 19                      | 6353                                                 | 188                   | 133                    | 40                      | 6694                                                 | 199                   | 120                    | 32                      | 37392                                                | 1062                  | 647                    | 200                     |
| 1900...                                  | 6846                                                 | 167                   | 149                    | 36                      | 3852                                                 | 109                   | 69                     | 20                      | 8919                                                 | 223                   | 193                    | 53                      | 4972                                                 | 141                   | 113                    | 21                      | 6426                                                 | 158                   | 125                    | 25                      | 6781                                                 | 184                   | 140                    | 30                      | 37796                                                | 975                   | 789                    | 188                     |
| 1901...                                  | 6919                                                 | 154                   | 124                    | 28                      | 3860                                                 | 77                    | 67                     | 13                      | 9079                                                 | 225                   | 129                    | 36                      | 4984                                                 | 101                   | 85                     | 21                      | 6500                                                 | 153                   | 120                    | 24                      | 6869                                                 | 148                   | 95                     | 24                      | 38212                                                | 858                   | 620                    | 145                     |
| 1902...                                  | 7076                                                 | 186                   | 100                    | 29                      | 3872                                                 | 74                    | 61                     | 10                      | 9273                                                 | 226                   | 131                    | 33                      | 4999                                                 | 107                   | 68                     | 13                      | 6591                                                 | 138                   | 93                     | 24                      | 6977                                                 | 172                   | 121                    | 30                      | 38712                                                | 891                   | 569                    | 135                     |
| 1903...                                  | 7145                                                 | 138                   | 102                    | 21                      | 3878                                                 | 73                    | 59                     | 7                       | 9428                                                 | 248                   | 110                    | 29                      | 5011                                                 | 100                   | 63                     | 16                      | 6664                                                 | 159                   | 79                     | 15                      | 7063                                                 | 165                   | 93                     | 15                      | 39114                                                | 941                   | 501                    | 117                     |
| 1904...                                  | 7145                                                 | 138                   | 102                    | 21                      | 3878                                                 | 73                    | 59                     | 7                       | 9583                                                 | 215                   | 139                    | 27                      | 5023                                                 | 128                   | 103                    | 22                      | 6737                                                 | 134                   | 97                     | 26                      | 7150                                                 | 132                   | 103                    | 20                      | 39516                                                | 820                   | 606                    | 123                     |
| Averages<br>of Years<br>1895 to<br>1904. | 6817                                                 | ...                   | 112                    | 31                      | 3849                                                 | ...                   | 63                     | 15                      | 8855                                                 | ...                   | 147                    | 50                      | 4966                                                 | ...                   | 81                     | 18                      | 6395                                                 | ...                   | 107                    | 25                      | 6745                                                 | ...                   | 116                    | 29                      | 37629                                                | 995                   | 628                    | 165                     |
| 1905...                                  | 7214                                                 | 129                   | 96                     | 22                      | 3884                                                 | 90                    | 55                     | 13                      | 9738                                                 | 229                   | 129                    | 35                      | 5035                                                 | 103                   | 84                     | 11                      | 6810                                                 | 123                   | 105                    | 17                      | 7237                                                 | 144                   | 93                     | 20                      | 39918                                                | 818                   | 562                    | 118                     |

# GOVERNMENT TABLE III.

Cases of Infectious Disease Notified during the year 1905.

NAME OF DISTRICT—DARWEN.

| Notifiable Disease.    | Cases Notified in Whole District. |        |         |          |          |          |             | Total Cases Notified in each Locality. |     |     |     |     |     | No. of Cases Removed to Hospital from each Locality. |     |     |     |     |     |
|------------------------|-----------------------------------|--------|---------|----------|----------|----------|-------------|----------------------------------------|-----|-----|-----|-----|-----|------------------------------------------------------|-----|-----|-----|-----|-----|
|                        | At Ages—Years.                    |        |         |          |          |          |             | 1                                      | 2   | 3   | 4   | 5   | 6   | 1                                                    | 2   | 3   | 4   | 5   | 6   |
|                        | Under 1.                          | 1 to 5 | 5 to 15 | 15 to 25 | 25 to 35 | 35 to 45 | 45 and up's |                                        |     |     |     |     |     |                                                      |     |     |     |     |     |
| Small Pox .....        | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Cholera .....          | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Diphtheria .....       | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Membranous Croup ..... | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Erysipelas .....       | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Scarlet Fever .....    | 4                                 | 146    | 274     | 22       | 10       | ...      | ...         | 68                                     | 44  | 82  | 56  | 111 | 95  | 17                                                   | 13  | 28  | 14  | 14  | 14  |
| Typhus Fever .....     | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | 3                                      | 1   | 13  | 3   | 4   | 4   | ...                                                  | ... | ... | ... | ... | ... |
| Enteric Fever .....    | 28                                | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Relapsing Fever .....  | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Continued Fever .....  | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Puerperal Fever .....  | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | 1   | 1   | 1   | 1   | 1   | ...                                                  | ... | ... | ... | ... | ... |
| Plague .....           | ...                               | ...    | ...     | ...      | ...      | ...      | ...         | ...                                    | ... | ... | ... | ... | ... | ...                                                  | ... | ... | ... | ... | ... |
| Totals .....           | 4                                 | 154    | 303     | 39       | 64       | 3        | 88          | 49                                     | 118 | 67  | 132 | 113 | 17  | 13                                                   | 28  | 14  | 14  | 14  | 14  |

ISOLATION HOSPITAL—BULL HILL, DARWEN.

# GOVERNMENT TABLE IV.

Causes of, and Ages at, Death during year 1905.

NAME OF DISTRICT—DARWEN.

| CAUSES OF DEATH.                               | Deaths at the subjoined ages of<br>"Residents" whether occurring<br>in or beyond the District. |               |                |                 |                  |                  |                 | Deaths at all ages of "Resi-<br>dents" belonging to Local-<br>ities whether occurring in or<br>beyond the District. |                    |                  |                  |                  |                  |
|------------------------------------------------|------------------------------------------------------------------------------------------------|---------------|----------------|-----------------|------------------|------------------|-----------------|---------------------------------------------------------------------------------------------------------------------|--------------------|------------------|------------------|------------------|------------------|
|                                                | All Ages.                                                                                      | Under 1 year. | 1 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 65. | 65 and upwards. | Central Ward.                                                                                                       | West-Central Ward. | North-East Ward. | North-West Ward. | South-East Ward. | South-West Ward. |
| I                                              | 2                                                                                              | 3             | 4              | 5               | 6                | 7                | 8               | 9                                                                                                                   | 10                 | 11               | 12               | 13               | 14               |
| Small Pox .....                                | ..                                                                                             | ..            | ..             | ..              | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | ..               |
| Measles .....                                  | 4                                                                                              | 1             | 2              | 1               | ..               | ..               | ..              | 1                                                                                                                   | ..                 | 1                | ..               | 2                | ..               |
| Scarlet Fever .....                            | 21                                                                                             | 1             | 13             | 6               | 1                | ..               | ..              | 5                                                                                                                   | 1                  | 2                | 6                | 2                | 5                |
| Whooping Cough .....                           | ..                                                                                             | ..            | ..             | ..              | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | ..               |
| Diphtheria and Membraneous<br>Croup .....      | 3                                                                                              | 1             | ..             | 2               | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | 1                | 1                | 1                |
| Croup .....                                    | ..                                                                                             | ..            | ..             | ..              | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | ..               |
| Fever { Typhus .....                           | ..                                                                                             | ..            | ..             | ..              | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | ..               |
| { Enteric .....                                | 3                                                                                              | ..            | ..             | ..              | 1                | 2                | ..              | 1                                                                                                                   | ..                 | 1                | 1                | ..               | ..               |
| { Other continued .....                        | ..                                                                                             | ..            | ..             | ..              | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | ..               |
| Epidemic Influenza .....                       | 6                                                                                              | ..            | ..             | ..              | ..               | 4                | 2               | 1                                                                                                                   | ..                 | 2                | 1                | ..               | 2                |
| Cholera .....                                  | ..                                                                                             | ..            | ..             | ..              | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | ..               |
| Plague .....                                   | ..                                                                                             | ..            | ..             | ..              | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | ..               |
| Diarrhœa .....                                 | 11                                                                                             | 1             | 2              | 2               | ..               | 3                | 3               | 2                                                                                                                   | 1                  | 3                | 1                | 3                | 1                |
| Enteritis .....                                | 19                                                                                             | 10            | 3              | ..              | ..               | 4                | 2               | 1                                                                                                                   | 3                  | 6                | 1                | 4                | 4                |
| Puerperal Fever .....                          | 3                                                                                              | ..            | ..             | ..              | ..               | 3                | ..              | ..                                                                                                                  | ..                 | 1                | 1                | 1                | ..               |
| Erysipelas .....                               | 1                                                                                              | ..            | ..             | ..              | ..               | 1                | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | 1                |
| Other Septic Diseases .....                    | 1                                                                                              | ..            | ..             | ..              | ..               | 1                | ..              | ..                                                                                                                  | ..                 | 1                | ..               | ..               | ..               |
| Phthisis (Pulm. Tuberculosis) .....            | 36                                                                                             | ..            | 1              | ..              | 8                | 24               | 3               | 6                                                                                                                   | 3                  | 7                | 7                | 9                | 4                |
| Other Tubercular Diseases .....                | 12                                                                                             | 5             | 5              | 1               | 1                | ..               | ..              | 2                                                                                                                   | 1                  | 5                | 1                | 2                | 1                |
| Cancer, malignant disease .....                | 36                                                                                             | ..            | ..             | ..              | ..               | 26               | 10              | 6                                                                                                                   | 2                  | 12               | 5                | 6                | 5                |
| Bronchitis .....                               | 51                                                                                             | 15            | 5              | ..              | ..               | 12               | 19              | 5                                                                                                                   | 7                  | 9                | 11               | 14               | 5                |
| Pneumonia .....                                | 47                                                                                             | 12            | 12             | 6               | ..               | 13               | 4               | 5                                                                                                                   | 3                  | 18               | 9                | 10               | 2                |
| Pleurisy .....                                 | 2                                                                                              | ..            | ..             | ..              | 1                | 1                | ..              | 1                                                                                                                   | ..                 | ..               | 1                | ..               | ..               |
| Other Diseases of Respiratory<br>Organs .....  | 5                                                                                              | 3             | 1              | ..              | ..               | ..               | 1               | 1                                                                                                                   | 1                  | ..               | 2                | 1                | ..               |
| Alcoholism—Cirrhosis of Liver... ..            | 3                                                                                              | ..            | ..             | ..              | ..               | 3                | ..              | ..                                                                                                                  | 1                  | ..               | ..               | ..               | 2                |
| Venereal Diseases .....                        | ..                                                                                             | ..            | ..             | ..              | ..               | ..               | ..              | ..                                                                                                                  | ..                 | ..               | ..               | ..               | ..               |
| Premature Birth .....                          | 31                                                                                             | 31            | ..             | ..              | ..               | ..               | ..              | 9                                                                                                                   | 5                  | 8                | ..               | 1                | 8                |
| Diseases and Accidents of<br>Parturition ..... | 7                                                                                              | ..            | ..             | ..              | 2                | 5                | ..              | ..                                                                                                                  | ..                 | 3                | 1                | 2                | 1                |
| Heart Diseases .....                           | 58                                                                                             | 2             | ..             | 3               | 9                | 30               | 14              | 7                                                                                                                   | 9                  | 5                | 10               | 15               | 12               |
| Accidents .....                                | 11                                                                                             | 1             | 4              | ..              | ..               | 3                | 3               | 2                                                                                                                   | 2                  | 1                | 2                | 1                | 3                |
| Suicides .....                                 | 7                                                                                              | ..            | ..             | ..              | ..               | 6                | 1               | ..                                                                                                                  | 1                  | 3                | 1                | ..               | 2                |
| All other causes .....                         | 184                                                                                            | 35            | 13             | 10              | 7                | 75               | 44              | 41                                                                                                                  | 15                 | 41               | 22               | 31               | 34               |
| All causes .....                               | 562                                                                                            | 118           | 61             | 31              | 30               | 216              | 106             | 96                                                                                                                  | 55                 | 129              | 84               | 105              | 93               |

## Farms and Dairies.

The following letter was addressed to the Farmers in the Borough—

HEALTH DEPARTMENT,

DARWEN, 3rd July, 1905.

Sir,

I enclose a copy of the regulations relating to the Dairies, Cowsheds and Milk-shops Order of 1885, and the Dairies, Cowsheds and Milk-shops Amending Order of 1886, and to say that the Health Committee, recognising the danger to the public of Infectious Diseases through the medium of milk, insists on these regulations being carried out, especially in reference to the carrying out of the order for limewashing and cleansing, the clearing away of excreta from the cowsheds, the wiping of the cows' udders, the washing of hands before milking, and attention to the ventilation of buildings.

The Inspectors have received strict instructions to see that these orders are all carried out.

Yours truly,

F. G. HAWORTH,

Medical Officer of Health.

The Southern District for all Sanitary purposes is under the supervision of Mr. W. E. Marsden, Sanitary Inspector. During the year he made 300 inspections of Farms and Dairies. With the exception of one or two small matters, which he reports to me, everything has been carried out that was necessary, by structural alterations in the farm buildings, to improve the lighting and ventilation, the drains have, where required, been put in proper order.

Special attention has been given to the ordinary defects associated with these places, windows are being made to open, the buildings provided with easing troughs and downspouts, the old internal drains taken out and replaced with open channels.

In some farms the pail closets have been found unsatisfactory and insanitary ; these have been remedied.

A common custom is to use a corner of the yard for storage of manure. This is highly objectionable, as well as being extravagant ; the access of moisture and light sets up chemical decomposition, with the consequent loss of products of great manurial value. The manure pit should drain into a tank, and be covered over from sunlight ; if a weak solution of sulphuric acid were sprinkled over after each fresh lot has been deposited, the ammonia would be fixed and thus preserved.

At Grimehills, a small reservoir has been constructed as a water supply for the farm, holding about 27,000 gallons, or a three months' supply. The Inspector reports this water pure, and free from pollution.

The Northern District, under the supervision of Mr. C. R. Walsh, Sanitary Inspector, who reports as follows—

The whole of the farms in my district have been visited at various times of the year and of the day ; at times when milking operations were being carried on, to ascertain if the regulations were being adhered to.

In most cases the farmers try to carry out our wishes, still, with an old world fondness for old-fashioned institutions, which prevents that change of methods which is necessary if our milk supply has to become above suspicion, there are still some old-fashioned cow keepers, who require constant supervision to keep them anything like up to the mark.

Particular attention has been paid to the lighting, ventilation and drainage of the dairies and shippons, statutory notices were served for the abatement of nuisances. Nearly the whole of these were abated.

The water supply to cattle, and used for household and dairy purposes, is on the whole fairly satisfactory.

The Moss Farms, mentioned in last year's report, are now supplied from a well, which has been sunk in a field some distance away. A sample of this water has been first analysed by myself, and afterwards Mr. Walsh submitted one to Dr. Campbell Brown, County Analyst, who reported as follows—"The sample is free from organic contamination, but, being acid, it has a slight action on lead."

This agreed with the analysis I had made.

The water supply at each farm will continue to have special attention.

Being constantly in touch with the Inspectors, I have visited a number of these farms, &c., during the year, and we are agreed as to the course of procedure in all cases.

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## **Factories, Workshops and Bakehouses.**

### **SOUTHERN DIVISION.**

Mr. Marsden reports having paid 127 visits to Bakehouses, and 499 visits to Factories and Workshops, and found in both cases they were in a satisfactory condition as regards cleanliness, general construction and sanitary conveniences.

I concur in the above, having been round and paid many visits myself. Where necessary notices have been served.

Mr. Smith-Saville, Borough Engineer, Mr. Marsden, and I went many times to Mr. Hargreaves' bakehouse in Railway Road. We found it to be an underground bakehouse, and refused registration until put to our satisfaction. We stated the conditions under which we would advise the Council to register it. After some delay, owing to legal difficulties between owner and occupier, the work was put in hand, and has been carried out to our satisfaction.

In regard to Kershaw, 15, Market Street, this place being underground it was condemned absolutely, as mentioned in my last Report. The new bakehouse in the yard has been built to our satisfaction.

## **NORTHERN DIVISION.**

Mr. Walsh reports having paid 376 visits to Factories, Workshops and Bakehouses. This constant supervision has been effectual in bringing about a general improvement in the condition of these places of employment. They are certainly kept cleaner, and are better lighted and ventilated.

Thirty-six defects, as follows, were discovered—

|                                                       |    |
|-------------------------------------------------------|----|
| Want of Cleanliness .....                             | 8  |
| Want of Ventilation .....                             | 3  |
| Want of Drainage .....                                | 1  |
| Defective or Insufficient Sanitary Accommodation..... | 5  |
| Other Nuisances .....                                 | 12 |

In some instances it was necessary to serve legal notices. The whole of the above defects have been remedied. There are three underground Bakehouses in this district, all of which are certified. One certificate being granted during the year after structural improvements have been carried out to my satisfaction.

In regard to the Sanitary Accommodation Order of 4th February, 1903, the following is a copy—

### **STATUTORY RULES AND ORDERS, 1903.**

No. 89.

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#### **F A C T O R Y   A N D   W O R K S H O P .**

##### **Sanitary Accommodation.**

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The Sanitary Accommodation Order of 4th February, 1903.

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In pursuance of Section 9 of the Factory and Workshop Act, 1901, I hereby determine that the accommodation in the way of sanitary conveniences provided in a factory or workshop shall be deemed to be sufficient and suitable within the meaning of the said section if the following conditions are complied with and not otherwise :—

1. In factories or workshops where females are employed or in attendance there shall be one sanitary convenience for every 25 females.

In factories or workshops where males are employed or in attendance there shall be one sanitary convenience for every 25 males ; provided that—

(a) in factories or workshops where the number of males employed or in attendance exceeds 100, and sufficient urinal accommodation is also provided, it shall be sufficient if there is one sanitary convenience for every 25 males up to the first 100, and one for every 40 after.

(b) in factories or workshops where the number of males employed or in attendance exceeds 500, and the District Inspector of Factories certifies in writing that by means of a check system, or otherwise, proper supervision and control in regard to the use of the conveniences are exercised by officers specially appointed for that purpose it shall be sufficient if one sanitary convenience is provided for every 60 males, in addition to sufficient urinal accommodation. Any certificate given by an Inspector shall be kept attached to the general register, and shall be liable at any time to be revoked by notice in writing from the Inspector.

In calculating the number of conveniences required by this order, any odd number of persons less than 25, 40, or 60, as the case may be, shall be reckoned as 25, 40, or 60.

2. Every sanitary convenience shall be kept in a cleanly state, shall be sufficiently ventilated and lighted, and shall not communicate with any work-room except through the open air or through an intervening ventilated space ; provided that in work-rooms in use prior to 1st January, 1903, and mechanically ventilated in such manner that air cannot be drawn into the work-room through the sanitary convenience, an intervening ventilated space shall not be required.

3. Every sanitary convenience shall be under cover and so partitioned off as to secure privacy, and if for the use of females shall have a proper door and fastenings.

4. The sanitary conveniences in a factory or workshop shall be so arranged and maintained as to be conveniently accessible to all persons employed therein at all times during their employment.

5. Where persons of both sexes are employed, the conveniences for each sex shall be so placed or so screened that the interior shall not be visible even when the door of any convenience is open, from any place where persons of the other sex have to work or pass; and, if the conveniences for one sex adjoin those for the other sex, the approaches shall be separate.

6. This order shall come into force on the 1st day of July, 1903.

7. This order may be referred to as the Sanitary Accommodation Order of 4th February, 1903.

A. AKERS-DOUGLAS,  
One of His Majesty's Principal Secretaries of State.

Home Office, Whitehall, 4th February, 1903.

As far as possible all alterations have been carried out to meet with the above.

I have had Cards printed dealing with Infectious Diseases and precautions, which have been sent to all the Mills, to be put in a prominent place in each one, for the guidance of the Workpeople—

BOROUGH OF DARWEN.

---

## INFECTIOUS DISEASES.

---

### Scarlet Fever.

Age.—None exempt, not very susceptible during 1st year; susceptibility increases from 2nd year to 7th; diminishes quickly after 10th year.

Incubation.—2 to 8 days.

Symptoms.—Headache, lassitude, chill, fever, vomiting, convulsions, tongue coated with white fur studded with red points, within 24 hours or more the fur clears off, leaving the tongue a deep red strawberry colour, the shining red points or papilæ being very prominent and characteristic. The lips are dry and cracked, the face is flushed, the eyes sparkling, there is thirst, twitching of the muscles and starting of the limbs. In a few hours to two or three days the rash appears as follows—On neck, chest, shoulders, rapidly increasing in redness and extending over trunk and extremities, reaching its maximum in rare cases on the first day, most usually on the second day, in some cases on third or fourth day. The skin is hot, red, and dry, sometimes tense and swollen.

Sore throat begins with the onset of the disease, progresses with the development of the rash, and subsides with its disappearance.

### **Measles.**

Age.—Children under 6 months exempt, most susceptible from 2 to 6 years ; after this the tendency lessens rapidly.

Incubation.—12 days.

Symptoms.—Headache, lassitude, chill, fever, vomiting, and pain in back and limbs. The catarrhal symptoms which resemble those of ordinary cold are the earliest symptoms in this disease, the eyes become watery, congested and suffused, red looking, the watery discharge becoming somewhat like matter, sneezing is common, the spread to the throat and lungs causes a cough which is sometimes croupy, the breathing laboured, rarely convulsions, bleeding at the nose. All the symptoms, which may be very mild, reach the height on the 4th day, when the rash appears in minute red spots, perceptible to the touch, of a dark red colour surrounded by normal looking skin, beginning on forehead, temples, cheeks, face, breast, extremities and body, the height being on the 6th day, swelling of glands under lower jaw and in front of neck.

### **Diphtheria.**

Age.—Rare under 6 months, susceptibility slight during 1st year, greatest during 2nd and 3rd, and up to 7 years ; from 7th to 9th year it diminishes, increasing again from 9th to 15th year ; after this it rapidly decreases.

Incubation.—May be a few hours to 3 days.

Symptoms.—Headache, lassitude, chill, fever, pain and aching of limbs, thirst, soreness of throat, skin hot and dry, tongue moist and furred, vomiting, hoarseness, neck stiff.

The membrane looking like wet wash-leather, forms on the back part of mouth and throat.

### **Whooping Cough.**

Age.—Most fatal under 3 years of age, may attack any age, most frequent among children.

Incubation.—4 to 14 days.

Symptoms.—Headache, lassitude, chill, fever. The child is restless and cross, some symptoms of ordinary cold, discharge from the nose, distressing and characteristic cough.

### **Erysipelas**

May occur at any age, in connection with wounds, or where there is any breach of the skin. This disease is very infectious; therefore cleanliness is of the utmost importance. The part becomes hot, red, and inflamed, accompanied by the usual symptoms of fever, viz., headache, lassitude, chill, fever. The part affected shows a clear line of demarcation between the healthy skin and the inflamed part, whilst on the side on which it is disappearing the redness shades gradually off.

Anyone so affected should remain at home, and, if possible, in one room, the part kept covered up from the air.

### **Chicken-Pox.**

Incubation.—14 days.

Symptoms.—Although a light disease, it is an infectious one. There are no special symptoms until the rash appears. This comes in the form of pimples or blebs. These subsequently form scabs, which fall off. School attendance may be resumed when all the scabs have come off.

## **Mumps.**

Incubation.—14 to 21 days.

Symptoms.—Pain, enlargement of the glands in front of the ears, and stiffness of the jaws.

School attendance may be resumed four weeks from the commencement of the attack. Quarantine of children exposed to the infection should be for three weeks.

## **Ringworm**

Is due to a minute fungus, the cells of which become detached and are carried from one to another by brushes, towels, caps, bonnets, sheets, etc., or by direct contact.

The rash forms rings, the outer edge being raised. It is infectious all the time, so the children should be kept at home or isolated as much as possible in school until the disease is stated to be cured by a Medical man. Children should not be allowed to wear each other's caps or bonnets.

## **Itch.**

Due to an insect which burrows beneath the skin, usually between the roots of the fingers and at the wrists and elbows. It is very catching, and due to want of cleanliness.

No child should be allowed back at school until cured, and all the clothing and bedding disinfected.

## **Vermin**

In the hair, clothing, &c., is entirely the result of dirt and want of attention. It is particularly hard for parents who are cleanly and attentive to the state of their children should find them again and again suffering from this condition. The children so affected should be sent home, with instructions to the parents to wash the heads with soft soap and water until perfectly clean.

### **Consumption or Phthisis.**

A most infectious disease, gradual in its onset, and slow in its progress, the germs of the disease are coughed up, and so long as the expectoration is kept moist there is not much danger. When this dries up, the germs are liberated and wafted about by the air, to be breathed in by another person, or may be to settle on articles of food to be afterwards consumed and give rise to the complaint in the bowels. It is most common from 15 years to 25 years, but may occur at any time of life. It is very important that the phlegm should be disposed of by burning as quickly as possible, and never allowed to dry up, even on the street or public places. The objectionable habit of spitting anywhere and everywhere is a great source of danger, from which we get many of our cases of consumption.

A consumptive patient should have a separate sleeping room, the window of which should be kept always open, and a separate utensil used to spit in, containing some water. The contents must be put on the fire and burnt.

If notice of these cases is sent to the Health Office, the rooms will be periodically fumigated free of charge, and the clothing and bedding disinfected. These should at least be frequently washed. Remember that sunshine and fresh air are the best disinfectants.

Anyone waiting on a consumptive patient should keep the mouth closed or covered with a damp cloth when bending over the patient, and the cloth either burnt or frequently washed, and the mouth washed out and gargled with a solution of Condyl's Fluid.

The shuttles, especially about the eyes, should be frequently wiped with a damp cloth.

### **General Directions.**

All cases of infectious disease where a Medical man is not in attendance should be reported to the Health Office.

The patients should be isolated in a bed-room, as it is impossible to disinfect or fumigate a living-room. Those who go to the mill must not mix with those affected, and be careful to wash before going to work.

Attendants on Diphtheria, Croup, Whooping Cough, Scarlet Fever and Measles should take the same precautions as in Consumption to prevent themselves becoming infected through the air-passages.

F. G. HAWORTH,

Medical Officer of Health.

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ANNUAL REPORT OF THE MEDICAL OFFICER OF HEALTH FOR THE  
YEAR 1905, FOR THE BOROUGH OF DARWEN,  
On the administration of the Factory and Workshop Act, 1901,  
in connection with  
FACTORIES, WORKSHOPS, LAUNDRIES, WORKPLACES  
AND HOMEWORK.

I.—INSPECTION.

Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

| Premises.                                                                               | Number of<br>Inspections. | Number of<br>Written<br>Notices. |
|-----------------------------------------------------------------------------------------|---------------------------|----------------------------------|
| Factories (Including Factory Laundries) and<br>Workshops (Including Workshop Laundries) | 875 .....                 | 23                               |
| Workplaces .....                                                                        |                           |                                  |
| Homeworkers' Premises .....                                                             |                           |                                  |
| Total .....                                                                             | 875 .....                 | 23                               |

## II.—DEFECTS FOUND.

### Nuisances under the Public Health Acts—

| Particulars.                     | Number of Defects. |           |
|----------------------------------|--------------------|-----------|
|                                  | Found.             | Remedied. |
| Want of cleanliness .....        | 13                 | 13        |
| Want of ventilation .....        | 5                  | 5         |
| Overcrowding .....               | —                  | —         |
| Want of drainage of floors ..... | 1                  | 1         |
| Other nuisances .....            | 16                 | 16        |

### Sanitary accommodation—

|                               |   |   |
|-------------------------------|---|---|
| Insufficient .....            | 4 | 3 |
| Unsuitable or defective ..... | 6 | 6 |
| Not separate for sexes .....  | — | — |

### Offences under the Factory and Workshop Act—

|                                                                                                      |    |    |
|------------------------------------------------------------------------------------------------------|----|----|
| Illegal occupation of underground bake-house (s. 101) .....                                          | —  | —  |
| Breach of special sanitary requirements for bakehouses (ss. 97 to 100) .....                         | —  | —  |
| Failure as regards lists of outworkers (s. 107) .....                                                | —  | —  |
| Giving out work to be done in premises which are                                                     |    |    |
| Unwholesome (s. 108) .....                                                                           | —  | —  |
| Infected (s. 110) .....                                                                              | —  | —  |
| Allowing wearing apparel to be made in premises infected by scarlet fever or smallpox (s. 109) ..... | —  | —  |
| Other offences .....                                                                                 | 7  | 7  |
|                                                                                                      | —  | —  |
| Total .....                                                                                          | 52 | 51 |
|                                                                                                      | —  | —  |

### III.—OTHER MATTERS.

| Class.                                                                                                                                | Number. |
|---------------------------------------------------------------------------------------------------------------------------------------|---------|
| Matters notified to H.M. Inspectors of Factories—                                                                                     |         |
| Failure to affix Abstract of the Factory and Workshop Act (s. 133) .....                                                              | 3       |
| Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts, but not under the Factory Act (s. 5)— |         |
| Notified by H.M. Inspectors .....                                                                                                     | 4       |
| Reports (of action taken) sent to H.M. Inspectors .....                                                                               | 4       |
| Other .....                                                                                                                           | 6       |

#### Underground Bakehouses (s. 101)—

|                                            |   |
|--------------------------------------------|---|
| Certificates granted during the year ..... | 1 |
| In use at the end of the year .....        | 6 |

#### Homework—

##### List of Outworkers (s. 107)—

|                                       | Number of<br>Lists. Outworkers. |
|---------------------------------------|---------------------------------|
| Lists received .....                  | Nil.                            |
| Addresses of outworkers—              |                                 |
| Forwarded to other Authorities .....  | Nil.                            |
| Received from other Authorities ..... | Nil.                            |

#### Homework in unwholesome or infected premises—

|                                                                     |      |
|---------------------------------------------------------------------|------|
| Notices prohibiting homework in unwholesome premises (s. 108) ..... | Nil. |
| Cases of infectious disease notified in homeworkers' premises ..... | Nil. |

|                                                                    | Number of<br>Lists. Outworkers. |
|--------------------------------------------------------------------|---------------------------------|
| Orders prohibiting homework in infected<br>premises (s. 110) ..... | Nil.                            |
| Workshops on the Register (s. 131) at the end of the year          | 222                             |
|                                                                    | <hr/>                           |
| Total number of workshops on Register...                           | 222                             |
|                                                                    | <hr/>                           |

F. G. HAWORTH,

Medical Officer of Health.

## Smoke Observations.

### Southern District.

Mr. Marsden has submitted 30 reports of Observations to the Committee during the year.

The following shows the average number of minutes during which smoke was emitted—

| Black Smoke. | Moderate Smoke. | Not Smoking. |
|--------------|-----------------|--------------|
| 6.2 .....    | 12.7 .....      | 41.1         |

### Northern District.

Mr. Walsh reports there are 42 factory chimneys in the district. During the year 51 hourly observations have been taken, with the following average result—

| Black<br>Smoke. | Moderate<br>Smoke. | Slight<br>Smoke. | None. |                  |
|-----------------|--------------------|------------------|-------|------------------|
| 5.8 .....       | 11.6 .....         | 18.5 .....       | 23.9  | Minutes per hour |

The black smoke limit of 10 minutes per hour was exceeded in nine instances. The Council decided that Statutory Notices under the Public Health Acts, 1875, Section 91, Sub-section 7, should be served upon the offending parties, calling for the abatement of the nuisance. In four cases the limit of 10 minutes was again exceeded after the expiration of the Notices, and the Council resolved to take legal proceedings against the occupiers of the Factories in question. At each Mill, however, mechanical stokers of various makes have been fixed, and it is gratifying to report a decided improvement in each case, although the chimneys are exceedingly low, and it is to be hoped that this improvement will be sustained.

In the Inspector's Report a detailed account of the whole of the observations is given, also the number of boilers at each Mill, and particulars respecting the various stoking and other apparatus in use.

### **THE SMOKE NUISANCE.**

The limit of black smoke was fixed by the Council on September 3rd, 1900, at 10 minutes in the hour, previously it had been 15 minutes per hour. This reduction has been followed by good results.

I have enquired into the regulations of other towns, and in particular to what is possible in individual works, where as many as eight boilers discharge into one chimney stack without emitting any black smoke whatever. I am convinced that what others can do can be done by our own manufacturers. I, therefore, strongly advise the Committee to still further reduce the limit of emission of black smoke from the high figure at which it now stands. The effect upon the health of the people, especially if followed by regulations regarding the opening of bedroom windows, would be much more than any temporary inconvenience experienced in such a reduction by structural alterations.

### **PUBLIC HEALTH ACT, 1875,**

#### **Section 91, Sub-section 7,**

Is as follows—

“Any fireplace or furnace which does not as far as practicable consume the smoke arising from the combustible used therein, and which is used for working engines by steam, or in a mill, factory, dye-house,

brewery, bakehouse, or gasworks, or in any manufacturing or trade process whatsoever, and any chimney (not being the chimney of a private dwelling house) sending forth black smoke in such quantity as to be a nuisance, shall be deemed to be a nuisance liable to be dealt with summarily by this Act."

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## Schools.

During the year the Inspectors and I have visited regularly all the Public Elementary Schools in the Borough, and they have been thoroughly disinfected when closed for holidays or during epidemics.

We have not always been satisfied as to their cleanliness, but upon representations being made to the Managers this matter has been attended to.

Cards, relating to the Ventilation of Schools and Class-rooms, were distributed to the Teachers—

### BOROUGH OF DARWEN.

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#### NOTICE.

To prevent the spread of Infectious Diseases it is very desirable the rooms used for educational purposes should be as well Ventilated as possible.

When the children are in School open the ventilators on the opposite side of the room to which the wind is blowing. During meal and play-hours have all the ventilators, windows and doors open.

F. G. HAWORTH,

Medical Officer of Health.

Cards, giving general symptoms of all Infectious Diseases, and instructions of necessary proceedings in the event of suspicious cases appearing, have also been sent to all the Teachers with a view to checking the spread of any of them.

## BOROUGH OF DARWEN.

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### INFECTIOUS DISEASES.

---

#### **Scarlet Fever.**

Age.—None exempt, not very susceptible during 1st year ; susceptibility increases from 2nd year to 7th ; diminishes quickly after 10th year.

Incubation.—2 to 8 days.

Symptoms.—Headache, lassitude, chill, fever, vomiting, convulsions, tongue coated with white fur studded with red points, within 24 hours or more the fur clears off, leaving the tongue a deep red strawberry colour, the shining red points or papilæ being very prominent and characteristic. The lips are dry and cracked, the face is flushed, the eyes sparkling, there is thirst, twitching of the muscles and starting of the limbs. In a few hours to two or three days the rash appears as follows—On neck, chest, shoulders, rapidly increasing in redness and extending over trunk and extremities, reaching its maximum in rare cases on the first day, most usually on the second day, in some cases on third or fourth day. The skin is hot, red, and dry, sometimes tense and swollen.

Sore throat begins with the onset of the disease, progresses with the development of the rash, and subsides with its disappearance.

#### **Measles.**

Age.—Children under 6 months exempt, most susceptible from 2 to 6 years ; after this the tendency lessens rapidly.

Incubation.—12 days.

Symptoms.—Headache, lassitude, chill, fever, vomiting, and pain in back and limbs. The catarrhal symptoms which resemble those of ordinary cold are the earliest symptoms in this disease, the eyes become

watery, congested and suffused, red looking, the watery discharge becoming somewhat like matter, sneezing is common, the spread to the throat and lungs causes a cough which is sometimes croupy, the breathing laboured, rarely convulsions, bleeding at the nose. All the symptoms, which may be very mild, reach the height on the 4th day, when the rash appears in minute red spots, perceptible to the touch, of a dark red colour surrounded by normal looking skin, beginning on forehead, temples, cheeks, face, breast, extremities and body, the height being on the 6th day, swelling of glands under lower jaw and in front of neck.

### **Diphtheria.**

Age.—Rare under 6 months, susceptibility slight during 1st year, greatest during 2nd and 3rd, and up to 7 years; from 7th to 9th year it diminishes, increasing again from 9th to 15th year; after this it rapidly decreases.

Incubation.—May be a few hours to 3 days.

Symptoms.—Headache, lassitude, chill, fever, pain and aching of limbs, thirst, soreness of throat, skin hot and dry, tongue moist and furred, vomiting, hoarseness, neck stiff.

The membrane looking like wet wash-leather, forms on the back part of mouth and throat.

### **Whooping Cough.**

Age.—Most fatal under 3 years of age, may attack any age, most frequent among children.

Incubation.—4 to 14 days.

Symptoms.—Headache, lassitude, chill, fever. The child is restless and cross, some symptoms of ordinary cold, discharge from the nose, distressing and characteristic cough.

## **Chicken-Pox.**

Incubation.—14 days.

Symptoms.—Although a light disease, it is an infectious one. There are no special symptoms until the rash appears. This comes in the form of pimples or blebs. These subsequently form scabs, which fall off. School attendance may be resumed when all the scabs have come off.

## **Mumps.**

Incubation.—14 to 21 days.

Symptoms.—Pain, enlargement of the glands in front of the ears, and stiffness of the jaws.

School attendance may be resumed four weeks from the commencement of the attack. Quarantine of children exposed to the infection should be for three weeks.

## **Ringworm**

Is due to a minute fungus, the cells of which become detached and are carried from one to another by brushes, towels, caps, bonnets, sheets, etc., or by direct contact.

The rash forms rings, the outer edge being raised. It is infectious all the time, so the children should be kept at home or isolated as much as possible in school until the disease is stated to be cured by a Medical man. Children should not be allowed to wear each other's caps or bonnets.

## **Itch.**

Due to an insect which burrows beneath the skin, usually between the roots of the fingers and at the wrists and elbows. It is very catching, and due to want of cleanliness.

No child should be allowed back at school until cured, and all the clothing and bedding disinfected.

## **Vermin**

In the hair, clothing, &c., is entirely the result of dirt and want of attention. It is particularly hard for parents who are cleanly and attentive to the state of their children should find them again and again suffering from this condition. The children so affected should be sent home, with instructions to the parents to wash the heads with soft soap and water until perfectly clean.

## **Instructions to Teachers.**

From the description given, we see that the four principal Infectious Diseases are ushered in by symptoms common to them all, as follows—

Headache, Lassitude, Chill, Fever.

As soon as these are recognised, or Ordinary Cold, Sneezing, Running of Eyes, Swollen Glands, Sore Throat, Cough if Whooping, Rash of any kind, or Peeling of Skin, remove the child from the rest of the scholars, and send him or her home as soon as possible. If he or she cannot get into the house, isolate the child from the rest until the School closes, send instructions to the parents to keep the child apart from the rest of the family for three days, and to send for the doctor. If the child is quite well at the end of the three days, you may then receive him or her back at School.

If you can get any information from the child as to any previous attack of Infectious Disease, enter this on the Card provided for that purpose, and report to the School Attendance Officer. The plan of work in which I ask your co-operation is as follows—Examine all the children in your class every day as soon as School opens, and every child suffering from any complaint whatever, even what may appear like an ordinary cold, to send this one home at once.

It is only by strictly separating the infected from the healthy ones in the earliest stage of a disease, that its spread can be prevented. By this means I hope to keep up the attendance to a high standard, and avoid the necessity of keeping larger numbers of children away from School.

**TEMPERATURE.**—The normal Temperature of a class room should range from 56 degrees F to 65 degrees F. Blinds which have been drawn should be raised whenever possible, and especially when the children are out, so as to get as much sunshine in the room as possible. This is Nature's disinfectant.

The Thermometer for ascertaining the Temperature should be placed against an inside wall, 6 feet from the floor, not in front of or near to a fire, nor close to the door.

**CLEANLINESS.**—Teachers should do their utmost to promote the strictest Cleanliness of persons and clothing, also of the School-room, Furniture and Books; as dust is a carrier of germs, it should be cleared with a damp cloth; all interchange of slates, sponges, pencils, &c., should be prohibited.

To prevent the spread of Infectious Disease, it is necessary to remove and isolate at once all infected children.

F. G. HAWORTH,

Medical Officer of Health.

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## **Slaughter Houses.**

Mr. Bickerstaffe, the Meat Inspector, has always the Slaughter-houses under his control and supervision. We have, consequently, very few grounds for complaint, and few cases of disease brought into the town.

In February, he drew my attention to the carcase of a beast which had been slaughtered there, and was, in his opinion, unfit for the food of man, although apparently well nourished. On section we found it to be generally tuberculosed; all the important lymphatic glands were affected, an important particular was that the glands before as well as those behind the diaphragm (skirt) were thoroughly diseased with Consumption.

The pleura and peritoneum were studded with tubercular nodules, showing the disease to be generalised; the udders were actively diseased.

The carcase was seized, condemned and destroyed.

For particulars of seizure see Mr. Bickerstaffe's Report.

The Slaughter-house is not well equipped for a scientific and accurate investigation microscopically into the diseases of animals which are transmissible to man.

I have mentioned the want of a Microscope to the Committee, to enable the blood of Anthrax animals, &c., to be examined, and so save the necessity of sending to Professor Delepine, Manchester.

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## Water Supply

Remains ample and satisfactorily pure.

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## Model Lodging House

Has been frequently visited and inspected with satisfaction to all concerned.

# INFECTIOUS DISEASES HOSPITAL.

## PATIENTS IN HOSPITAL DURING 1905.

| Name.                | Address.              | Age.    | Disease.      | Admitted. | Discharged.  | Days. |
|----------------------|-----------------------|---------|---------------|-----------|--------------|-------|
| Hannah Lomax         | 14, Joseph Street     | 9 years | Scarlet Fever | Nov. 12   | Jan. 8       | 57    |
| Fred Nuttall         | 9, Queen Street       | 8       | "             | " 16      | " 10         | 55    |
| Annie Holden         | 37, Bright Street     | 5       | "             | " 18      | " 10         | 53    |
| Charles Harwood      | 54, Holden Fold       | 5       | "             | " 18      | " 14         | 57    |
| Sarah J. Leach       | 66, Holden Fold       | 11      | "             | " 25      | " 14         | 50    |
| Charles Fowler       | 14, Joseph Street     | 14      | "             | " 28      | " 14         | 47    |
| John Scarsbrick      | 31, Belgrave Road     | 5       | "             | " 28      | " 14         | 47    |
| James H. Briggs      | 18, Francis Street    | 6       | "             | " 29      | " 21         | 53    |
| Ada Pickup           | 100, Duckworth St.    | 18      | "             | Dec. 9    | " 28         | 50    |
| William Roscoe       | 21, Longton Street    | 11      | "             | " 16      | Feb. 4       | 50    |
| Thomas E. Roscoe     | 21, Longton Street    | 14      | "             | " 16      | " 4          | 50    |
| *Ellen A. Sullivan   | 4, Peel Street        | 29      | Small Pox     | " 20      | Jan. 15      | 26*   |
| John Craig           | 59, Bolton Road       | 5       | Scarlet Fever | " 24      | Feb. 11      | 49    |
| Ann Jane Whittaker   | 23, Garnet Street     | 5       | "             | " 28      | Mar. 11      | 73    |
| Annie Whittle        | 14, Mount Street      | 3       | "             | " 28      | Feb. 11      | 45    |
| Harriet M. Boughey   | 30, Preston Street    | 3       | "             | Jan. 4    | Feb. 19      | 46    |
| Elizabeth Bell       | 2, Charles Street     | 10      | "             | " 6       | " 28         | 53    |
| Jesu'm L. Coulthurst | 51, Blackburn Road    | 10      | "             | " 16      | " 13         | 28    |
| John Knowles         | 20, Alexandra Terrace | 5       | "             | " 20      | Mar. 11      | 50    |
| Squire Knowles       | 20, Alexandra Terrace | 8       | "             | " 20      | " 11         | 50    |
| Annie Wrighton       | 22, Hollins Grove St. | 1½      | "             | " 20      | Feb. 28      | 39    |
| Elizabeth Studholme  | 15, Pot House Lane    | 10      | "             | " 21      | Mar. 18      | 56    |
| Harold N. Armstrong  | 23, Wharton Street    | 8       | "             | " 23      | April 1      | 68    |
| Mary E. Armstrong    | 23, Wharton Street    | 6       | "             | " 23      | " 1          | 68    |
| Cecil K. Armstrong   | 23, Wharton Street    | 4       | "             | " 23      | " 1          | 68    |
| Minnie Nuttall       | 227, Duckworth St.    | 8       | "             | " 23      | Feb. 22      | 30    |
| Dora Nuttall         | 227, Duckworth St.    | 10      | "             | " 23      | Mar. 7       | 43    |
| Deborah Sanderson    | 9, Almond Street      | 12      | "             | Feb. 7    | April 11     | 63    |
| Mary E. Marsden      | 20, Britten Street    | 13      | "             | " 7       | " 15         | 67    |
| Wm. H. Williams      | 13, Scholes Street    | 17      | "             | " 13      | " 1          | 47    |
| Isaiah Hacking       | 13, Orchard Street    | 3       | "             | " 24      | " 11         | 46    |
| William Smurden      | 63, St. Albans Road   | 9       | "             | March 1   | " 11         | 41    |
| John W. Peterson     | 17, Meadow Street     | 10      | "             | " 1       | July 28      | 149   |
| Alice Peterson       | 17, Meadow Street     | 1½      | "             | " 1       | Died Mar. 10 | 9     |

\* Isolated at Stepback Temporary Hospital.

# PATIENTS IN HOSPITAL DURING 1905.—(Continued).

| Name.               | Address.             | Age.    | Disease.      | Admitted. | Discharged.  | Days. |
|---------------------|----------------------|---------|---------------|-----------|--------------|-------|
| Alice Isherwood     | 12, Bentley Street   | 8 years | Scarlet Fever | Mar. 3    | May 3        | 61    |
| Stephen Atkinson    | 16, Bentley Street   | 11      | "             | " 7       | " 2          | 56    |
| Alice Hacking       | 13, Orchard Street   | 9       | "             | " 10      | " 4          | 55    |
| Lena Ratcliffe      | 3, Maria Street      | 2       | "             | " 10      | April 25     | 46    |
| Edith Ratcliffe     | 3, Maria Street      | 4½      | "             | " 10      | Died Mar. 24 | 14    |
| George Artingstall  | 38, Greenway Street  | 17      | "             | " 11      | April 20     | 40    |
| Lilian Livesey      | 9, Grimshaw Street   | 2½      | "             | " 14      | " 25         | 42    |
| Arthur Raine        | 1, Pilkington Street | 6       | "             | " 17      | Aug. 1       | 137   |
| Harry Battersby     | 26, Bolton Road      | 10      | "             | " 19      | May 17       | 49    |
| Frank Whalley       | 147, Blackburn Road  | 8       | "             | " 29      | " 23         | 55    |
| Annie Hughes        | 34, Willie Street    | 29      | "             | " 30      | " 16         | 47    |
| John Sumner         | 41, Clifton Street   | 4       | "             | April 14  | June 6       | 53    |
| Sarah Kirkup        | Moorthorpe           | 21      | "             | " 18      | May 30       | 42    |
| Thomas Clarke       | 12, Greggs Gardens   | 28      | "             | May 1     | June 20      | 51    |
| Thomas Jepson       | 17, Lloyd Street     | 12      | "             | " 1       | " 17         | 48    |
| Edith Clayton       | 144, Lomax Street    | 3½      | "             | " 1       | " 13         | 44    |
| John Holden         | 99, Redearth Road    | 10      | "             | " 1       | " 28         | 59    |
| George Isherwood    | 12, Bentley Street   | 7       | "             | " 11      | July 14      | 64    |
| Margaret Young      | 45, Portland Street  | 7       | "             | " 11      | " 7          | 57    |
| Annie Ratcliffe     | 3, Maria Street      | 13      | "             | " 15      | June 30      | 46    |
| Edith Williams      | 621, Blackburn Road  | 9       | "             | " 17      | " 30         | 44    |
| Annie Bentley       | 621, Blackburn Road  | 3½      | "             | " 17      | July 7       | 51    |
| Hector McDonald     | 3, Baron Fold        | 4       | "             | " 22      | " 28         | 67    |
| Herbert Marr        | 631, Blackburn Road  | 4½      | "             | " 23      | " 7          | 45    |
| Jane Ward           | 1, Chapel Street     | 10½     | "             | " 29      | " 14         | 46    |
| Hubert Field        | 84, Blackburn Road   | 6       | "             | June 5    | " 17         | 42    |
| Catherine O'Donnell | 4, Junction Street   | 6       | "             | " 6       | Aug. 1       | 56    |
| Neah M. Lamb        | 28, Hr. South Street | 4       | "             | " 8       | " 1          | 54    |
| Ethel M. Thompson   | 1, Amelia Road       | 4       | "             | " 10      | " 1          | 52    |
| Chris. Hindle       | 5, Pit Street        | 12      | "             | " 15      | " 5          | 51    |
| John H. Thompson    | 1, Amelia Road       | 19      | "             | " 22      | " 22         | 61    |
| Ada Lamb            | 28, Hr. South Street | 6       | "             | " 24      | " 15         | 53    |
| Lily Moore          | 4, Jepson Street     | 11      | "             | " 28      | " 15         | 48    |
| Albert Bailey       | Ellison Fold Farm    | 4       | "             | July 4    | Oct. 17      | 105   |
| Nora Shorrocks      | 9, Amelia Street     | 5       | "             | " 17      | Aug. 18      | 32    |
| Catherine Murray    | 9, Greggs Gardens    | 11      | "             | " 21      | Sept. 17     | 58    |
| Linda Walsh         | 9, George Street     | 3       | "             | " 25      | " 1          | 38    |
| Annie R. Arkwright  | Height Side Farm     | 3       | "             | " 26      | " 0          | 45    |

# PATIENTS IN HOSPITAL DURING 1905.—(Continued).

| Name.            | Address.                   | Age.     | Disease.      | Admitted. | Discharged.  | Days. |
|------------------|----------------------------|----------|---------------|-----------|--------------|-------|
| John Preston     | 4, Mars Hill               | 4½ years | Scarlet Fever | July 28   | Sept. 30     | 64    |
| John Collinson   | 283, Bolton Road           | 4½       | "             | " 28      | " 9          | 43    |
| Mary E. Duxbury  | 26, Bury Street            | 6        | "             | Aug. 4    | Oct. 17      | 74    |
| Sarah E. Walsh   | 15, Gillibrand Street      | 4½       | "             | 4         | Sept. 23     | 50    |
| Joss Pinder      | 5, Perry Street            | 10       | "             | 4         | " 18         | 45    |
| Vincent Shorroch | 51, Vernon Street          | 3        | "             | 8         | " 21         | 44    |
| James Drennan    | 8, Greggs Gardens          | 3        | "             | 14        | " 23         | 40    |
| William Costley  | Olive Lane Mill            | 10       | "             | 21        | Nov. 21      | 92    |
| Alice Heyes      | 42, Peabody Street         | 4½       | "             | 22        | Oct. 17      | 56    |
| William Lingard  | 17, Peabody Street         | 14       | "             | 24        | " 10         | 47    |
| William Alston   | 7, Dove Lane               | 8        | "             | 24        | " 17         | 54    |
| Leonard Pollard  | 333, Blackburn Road        | 10       | "             | 28        | Nov. 3       | 67    |
| Nellie Pollard   | 333, Blackburn Road        | 6        | "             | 28        | Oct. 20      | 53    |
| Sarah Isa Fish   | 43, Railway Road           | 11       | "             | Sept. 6   | " 27         | 51    |
| Betsy Maudsley   | 8, William-st., Sough      | 3        | "             | " 6       | " 20         | 44    |
| William Maudsley | 8, William-st., Sough      | 6        | "             | " 6       | " 20         | 44    |
| Mary Stewart     | Dutton Manor,<br>Longridge | 30       | "             | " 13      | Nov. 4       | 52    |
| George Eccles    | 39, Blacksnape             | 4        | "             | " 18      | Oct. 27      | 39    |
| Lettice Eccles   | 39, Blacksnape             | 5        | "             | " 26      | " 27         | 31    |
| James Millward   | 62, London Terrace         | 5        | "             | Oct. 10   | Dec. 19      | 70    |
| Alice Brennan    | 65, Vernon Street          | 7        | "             | 10        | Nov. 21      | 42    |
| Arthur Dearden   | 53, Sandon Street          | 5        | "             | 14        | Dec. 8       | 55    |
| George Wilkinson | 30, Essex Street           | 0        | "             | 23        | Nov. 20      | 37    |
| Helen Pickup     | 1, Hr. Lawrence St.        | 34       | "             | 30        | Died Nov. 17 | 18    |
| Lawrence Roberts | 12, Hindle Street          | 4        | "             | 31        | Dec. 19      | 49    |
| Evelyn Challinor | 67, Blackburn Road         | 6        | "             | Nov. 3    | "            | "     |
| John Caeley      | 33, Blacksnape             | 5        | "             | 3         | "            | "     |
| Nellie Caeley    | 33, Blacksnape             | 10       | "             | 3         | "            | "     |
| Annie Yates      | 8, Hacking Street          | 5        | "             | 3         | Nov. 30      | 27    |
| James Greenhalgh | 18, Snape Street           | 2½       | "             | 4         | "            | "     |
| Maggie Whittaker | 23, Garnett Street         | 7        | "             | 10        | Dec. 19      | 41    |
| Lilly Whittaker  | 23, Garnett Street         | 10       | "             | 15        | "            | "     |
| Mabel Entwistle  | 97, Belgrave Road          | 25       | "             | 17        | "            | "     |
| Dora Ilingworth  | 187, Duckworth St.         | 8        | "             | "         | "            | "     |
| Elizabeth Baron  | 2, Equiv Street            | 19       | "             | 25        | "            | "     |
| Ethel Haworth    | 10, Cambridge St.          | 26       | "             | 28        | "            | "     |
| Betsy A. Haworth | 10, Cambridge St.          | 5        | "             | 28        | "            | "     |

# PATIENTS IN HOSPITAL DURING 1905.—(Continued).

| Name.             | Address.            | Age.    | Disease.      | Admitted. | Discharged. | Days. |
|-------------------|---------------------|---------|---------------|-----------|-------------|-------|
| Herbert Catterall | 336, Blackburn Road | 5 years | Scarlet Fever | Nov. 29   | .....       | ...   |
| Miriam Halliwell  | 1, Sandon Street    | 3 "     | "             | " 30      | .....       | ...   |
| Walter Livesey    | 32, Westwell Street | 3½ "    | "             | Dec. 2    | .....       | ...   |
| Sarah Matthews    | 19, Hacking Street  | 9 "     | "             | " 2       | .....       | ...   |
| Fred Fraser       | 75, St. Albans Road | 5 "     | "             | " 6       | .....       | ...   |
| Ernest Fender     | 20, Howarth Street  | 7½ "    | "             | " 15      | .....       | ...   |
| Arthur Fender     | 29, Howarth Street  | 13 "    | "             | " 15      | .....       | ...   |

On November 23rd, I brought before the notice of the Committee the advisability of erecting a Steam Disinfector on Corporation land in the centre of the town, to obviate the delay and expense of carrying all the clothing, bedding, &c., up to Bull Hill, where steam has to be got up specially for that purpose ; whereas if we had one near the Destructor the steam would be always available, and it would be equi-distant from all parts. This question was referred to a Sub-committee to enquire and report upon.

### **Consumption.**

I advise this Council to have issued remarks bearing upon the evils of indulgence in Alcoholic Liquors, &c. The immense ruin and mischief worked by this habit is sufficient to warrant such a proceeding.

And also with a view to stopping the dirty habit of spitting in public places.



TABLE (C).

COUNTY OF LANCASTER.

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SUMMARY OF  
Medical Officer's Report for 1905.

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URBAN SANITARY DISTRICT OF DARWEN.

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|                                   |        |
|-----------------------------------|--------|
| Area in Statute Acres .....       | 5,919  |
| Population (Census) 1901 .....    | 38,212 |
| Population (Estimated) 1905 ..... | 39,918 |

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Name of Medical Officer of Health—FRED GEORGE HAWORTH,  
M.B.C.M., D.P.H.      Salary, £200.

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|                                                                  | Males. | Females. | Total. |
|------------------------------------------------------------------|--------|----------|--------|
| Births Registered .....                                          | 422    | 396      | 818    |
| Deaths Registered (Nett Deaths<br>belonging to the District) ... | 279    | 283      | 562    |

Number of Illegitimate Births registered, 25. Illegitimate Deaths under one year of age, 8.

Birth Rate, 20.4. Death Rate, 14.0. Rate of Infant Deaths, under one year, to 1,000 Births, 144.

Death Rate from the seven principal Zymotic Diseases per 1,000 of population, 1.00.

Diseases prevalent ?—Scarlet Fever.      Period ?—Whole year.

What Action taken ?—Isolated in Hospital where possible.      Any Schools Closed ?—Yes. If so, for what Disease ?—Scarlet Fever, Measles.

What is the character of the Hospital Accommodation ?—Isolation.

Is it Joint or otherwise ?—No.

Number of Beds available for the District ?—20 and 4 cots.

Number of Cases treated ?—Scarlet Fever, 100 ; Total, 100.

Deaths in Hospital ?—Three. From what causes ?—Scarlet Fever.

How is Disinfection carried out ?—Houses, Sulphur and Equifex Spray ; Clothing, Bedding, &c., Superheated Steam. Apparatus used ? Washington Lyon's.

Number of Cases of Infectious Disease Notified ?—567.

Are any Diseases not specifically mentioned in the Act notifiable (for instance, Measles, Whooping Cough, Diarrhœa, Chicken Pox, &c.) ? If so, what are they ?—No.

Has any arrangement been made for the "voluntary" notification of Phthisis ?—No.

Has any action been taken under "The Housing of the Working Classes Acts ?"—No.

How many houses condemned as unfit for human habitation, and how many closed or demolished ?—None.

From where is the Water Supply obtained, and what is its condition ?—Upland Surface Water. Is it subject to your Inspection ?—Yes.

Is Scavenging carried out satisfactorily ?—Yes. By Sanitary Authority or contract ?—Sanitary Authority.

How is the Refuse disposed of ?—Burnt in Destructor (Meldrum's).

What is the character of Drainage and the form of Sewage Disposal ?—Combined System Bacteriological Treatment.

Canal Boats (Number Inspected, &c.) ?—None.

What is the condition of the Bakehouses ?—Good.

Slaughter-houses ?—One Private, one Public.

Lodging-houses ?—One Municipal.

Dairies, Cowsheds and Milkshops : Are they periodically inspected ?—Yes.

What is their condition ?—Fair.

Are they subject to Regulations made under the Order of the Local Government Board ?—Yes.

What amount of air space in cubic feet is required for each cow ?—  
600 cubic feet.

Food unfit for Human Consumption : Amount seized ?—1 Beast, 8 Sheep,  
1 Calf, 2 Swine, 2 tons, 3 cwts., 14 lbs. Infected Internal Organs,  
&c., 1 Box of Gurnetts, 30 lbs. Apples.

Any Special Report of Medical Officer of Health during the year ?—Special  
Reports on Small Pox, Diseased Meat, Scarlet Fever, Diarrhoea and  
Premature Birth.

#### DEPARTMENTS OF INSPECTORS OF NUISANCES.

Number of Notices served ?—1,577.

Number of Nuisances remedied ?—1,626.

Number of Legal Proceedings taken and result ?—None.

#### SMOKE.

Number of Observations ?—81.

Number of Legal Proceedings taken and result ?—None.

What is the time limit allowed for the emission of Black Smoke per hour ?—  
Ten minutes.

Has the Authority adopted—

(a) "The Infectious Disease (Prevention) Act, 1890" ?—(a) Yes, except  
Sections 5 to 11 inclusive and 15.

(b) "The Public Health Acts Amendment Act, 1890" ?—(b) Yes, except  
that relating to Music and Dancing.

## Lancashire Large Towns.

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|                     | GENERAL<br>DEATH RATE. | ZYMOTIC<br>RATE. |
|---------------------|------------------------|------------------|
| Manchester .....    | 18.0                   | 2.23             |
| Salford .....       | 16.9                   | 2.55             |
| Liverpool .....     | 19.6                   | 2.59             |
| Oldham .....        | 18.0                   | 2.09             |
| Blackburn .....     | 16.4                   | 2.03             |
| Preston .....       | 17.9                   | 3.14             |
| Bolton .....        | 15.0                   | 1.93             |
| Burnley .....       | 16.5                   | 2.32             |
| Bootle .....        | 16.6                   | 2.6              |
| Wigan .....         | 18.0                   | 3.23             |
| Bury .....          | 16.4                   | 1.19             |
| Rochdale .....      | 16.7                   | 1.3              |
| Accrington .....    | 13.4                   | .65              |
| Lancaster .....     | 12.4                   | 1.48             |
| Warrington .....    | 16.9                   | 2.7              |
| <b>DARWEN</b> ..... | 14.0                   | 1.00             |

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I take this opportunity in presenting my Report to acknowledge the very great kindness, consideration and help which I have at all times received from the Members of the Health Committee, and from all the Officials of the Corporation,

And beg to remain, Gentlemen,

Your very obedient servant,

**F. G. HAWORTH.**



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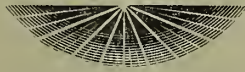
# REPORTS

OF THE

## Inspectors of Nuisances

FOR THE

Year ending December 31st, 1905.



**SANITARY OFFICE,**

**DARWEN, February, 1906.**

**TO THE CHAIRMAN AND MEMBERS OF THE  
HEALTH COMMITTEE.**

Gentlemen,

I beg to submit my Report for the year ending December 31st, 1905.

**INFECTIOUS DISEASES.**

During the year 1905 there were 333 Infectious Diseases received by the Department.

The whole of the cases were visited, the premises carefully inspected, printed and verbal instructions were given as to the proper means of isolation of infected persons, and also as to the disinfection of the clothing and surroundings. At the termination of each case, the rooms were fumigated, and the infected bedding removed to the Hospital for fumigation.

Forty-five Cases were removed to the Hospital, all of which were Scarlet Fever.

The following Table gives the comparison between Infectious Diseases notified during each month of 1904—1905.

|                 | Scarlet. |      | Typhoid. |      | Puerperal. |      | Erysipelas. |      | Croup. |      | Diphtheria. |      | Continued Fever. |      | Small Pox. |      | Chicken Pox. |      |   |   |
|-----------------|----------|------|----------|------|------------|------|-------------|------|--------|------|-------------|------|------------------|------|------------|------|--------------|------|---|---|
|                 | 1904     | 1905 | 1904     | 1905 | 1904       | 1905 | 1904        | 1905 | 1904   | 1905 | 1904        | 1905 | 1904             | 1905 | 1904       | 1905 | 1904         | 1905 |   |   |
| January .....   | 2        | 38   | ...      | 1    | 0          | ...  | 0           | 0    | ...    | 1    | 6           | ...  | 0                | 0    | ...        | 0    | 0            | ...  | 0 | 0 |
| February .....  | 2        | 11   | ...      | 5    | 1          | ...  | 1           | 1    | ...    | 3    | 6           | ...  | 0                | 0    | ...        | 0    | 0            | ...  | 0 | 0 |
| March .....     | 5        | 52   | ...      | 3    | 2          | ...  | 0           | 0    | ...    | 1    | 4           | ...  | 0                | 0    | ...        | 8    | 4            | ...  | 0 | 0 |
| April .....     | 4        | 38   | ...      | 0    | 0          | ...  | 2           | 0    | ...    | 0    | 2           | ...  | 0                | 0    | ...        | 2    | 2            | ...  | 0 | 0 |
| May .....       | 22       | 35   | ...      | 0    | 1          | ...  | 0           | 0    | ...    | 3    | 3           | ...  | 0                | 0    | ...        | 0    | 1            | ...  | 0 | 0 |
| June .....      | 27       | 18   | ...      | 0    | 1          | ...  | 0           | 0    | ...    | 2    | 0           | ...  | 0                | 0    | ...        | 3    | 1            | ...  | 0 | 0 |
| July .....      | 25       | 21   | ...      | 0    | 1          | ...  | 0           | 0    | ...    | 2    | 2           | ...  | 0                | 0    | ...        | 0    | 0            | ...  | 0 | 0 |
| August .....    | 41       | 11   | ...      | 2    | 0          | ...  | 0           | 0    | ...    | 1    | 2           | ...  | 0                | 0    | ...        | 1    | 0            | ...  | 0 | 0 |
| September ..... | 43       | 10   | ...      | 0    | 0          | ...  | 1           | 0    | ...    | 1    | 2           | ...  | 0                | 0    | ...        | 0    | 1            | ...  | 0 | 0 |
| October .....   | 60       | 13   | ...      | 1    | 2          | ...  | 0           | 0    | ...    | 1    | 1           | ...  | 0                | 0    | ...        | 1    | 2            | ...  | 0 | 0 |
| November .....  | 79       | 16   | ...      | 1    | 3          | ...  | 0           | 1    | ...    | 2    | 0           | ...  | 0                | 0    | ...        | 3    | 1            | ...  | 0 | 0 |
| December .....  | 50       | 11   | ...      | 1    | 0          | ...  | 0           | 0    | ...    | 2    | 2           | ...  | 0                | 0    | ...        | 1    | 4            | ...  | 0 | 0 |
| Total .....     | 360      | 274  | ...      | 14   | 11         | ...  | 4           | 2    | ...    | 19   | 30          | ...  | 0                | 0    | ...        | 19   | 16           | ...  | 0 | 0 |

The following Table gives the total notifications in each Ward—

|                       | Central. | South-<br>East. | South-<br>West. | Total. |
|-----------------------|----------|-----------------|-----------------|--------|
| Scarlet Fever .....   | 68       | 111             | 95              | 274    |
| Typhoid .....         | 3        | 4               | 4               | 11     |
| Puerperal .....       | —        | 1               | 1               | 2      |
| Erysipelas .....      | 12       | 10              | 8               | 30     |
| Croup .....           | —        | —               | —               | —      |
| Diphtheria .....      | 5        | 6               | 5               | 16     |
| Continued Fever ..... | —        | —               | —               | —      |
| Small Pox .....       | —        | —               | —               | —      |
| Chicken Pox .....     | —        | —               | —               | —      |
|                       | 88       | 132             | 113             | 333    |

## INFECTED BEDDING.

During 1905, 407 van loads of Bedding were removed to the Hospital for disinfection.

The quantity for previous years was—

|            |           |
|------------|-----------|
| 1895 ..... | 32 loads. |
| 1896 ..... | 41 „      |
| 1897 ..... | 27 „      |
| 1898 ..... | 73 „      |
| 1899 ..... | 320 „     |
| 1900 ..... | 349 „     |
| 1901 ..... | 398 „     |
| 1902 ..... | 275 „     |
| 1903 ..... | 64 „      |
| 1904 ..... | 391 „     |
| 1905 ..... | 407 „     |

The following is a list of Articles removed during 1905—

|              | Beds. | Matresses. | Bolsters. | Pillows. | Quilts. | Blankets. | Sheets. | Suits of Clothes. | Carpets. | Rugs. | Curtains. | Cushions. | Shawls. | Sundries. |
|--------------|-------|------------|-----------|----------|---------|-----------|---------|-------------------|----------|-------|-----------|-----------|---------|-----------|
| January..... | 64    | 19         | 60        | 82       | 38      | 46        | 15      | 2                 | 2        | 1     | 0         | 0         | 1       | 52        |
| February ... | 50    | 24         | 38        | 60       | 52      | 67        | 29      | 2                 | 0        | 0     | 0         | 0         | 2       | 117       |
| March .....  | 52    | 13         | 42        | 63       | 32      | 43        | 15      | 1                 | 3        | 0     | 2         | 0         | 2       | 44        |
| April .....  | 45    | 11         | 38        | 58       | 13      | 18        | 14      | 4                 | 2        | 0     | 0         | 0         | 0       | 19        |
| May .....    | 67    | 23         | 61        | 72       | 53      | 63        | 19      | 6                 | 3        | 2     | 0         | 0         | 7       | 142       |
| June .....   | 44    | 20         | 43        | 66       | 34      | 28        | 19      | 2                 | 2        | 0     | 0         | 0         | 0       | 62        |
| July .....   | 35    | 12         | 32        | 43       | 29      | 30        | 17      | 2                 | 3        | 0     | 2         | 0         | 0       | 23        |
| August ...   | 38    | 11         | 34        | 46       | 24      | 34        | 16      | 0                 | 0        | 1     | 0         | 0         | 5       | 25        |
| September .. | 19    | 8          | 19        | 29       | 11      | 14        | 9       | 0                 | 0        | 0     | 0         | 0         | 0       | 13        |
| October ...  | 29    | 11         | 26        | 40       | 19      | 28        | 10      | 2                 | 0        | 2     | 0         | 0         | 0       | 51        |
| November...  | 33    | 8          | 28        | 38       | 37      | 67        | 18      | 3                 | 1        | 1     | 0         | 3         | 10      | 68        |
| December ... | 30    | 9          | 22        | 33       | 17      | 27        | 11      | 3                 | 0        | 0     | 0         | 0         | 0       | 21        |
|              | 506   | 169        | 443       | 630      | 359     | 465       | 192     | 27                | 16       | 7     | 4         | 3         | 27      | 637       |

## SUMMARY OF NUISANCES DEALT WITH.

|                                                              |      |
|--------------------------------------------------------------|------|
| Number of Nuisances Discovered .....                         | 831  |
| Preliminary Notices Served .....                             | 577  |
| Legal Notices Served .....                                   | 260  |
| Number of Nuisances Abated .....                             | 816  |
| Number of Re-inspections .....                               | 2172 |
| Number of Complaints Received .....                          | 101  |
| Number of Complaints attended to .....                       | 99   |
| Number of Houses Inspected .....                             | 3581 |
| To Open and Flush Drains .....                               | 88   |
| To Re-fix and Cement uneven Slop Gullies .....               | 44   |
| To Disconnect Waste Pipes from Drains .....                  | 8    |
| To Repair Broken Ashtubs .....                               | 21   |
| To Provide Tank at Farm .....                                | 1    |
| To Abolish Cesspools .....                                   | 4    |
| To Convert Closets to Waste Water Closets and Latrines ..... | 16   |
| To Repair Defective Soil Pipes .....                         | 9    |
| To Repair Defective Easing Troughs and Downspouts .....      | 83   |
| To Cleanse Yards, Flag Yards .....                           | 30   |
| To Construct Proper Drains .....                             | 39   |
| To Limewash and Cleanse Dirty Houses .....                   | 117  |
| To Limewash and Cleanse Filthy Closets .....                 | 45   |
| To Remove Accumulations of Refuse .....                      | 45   |
| To Abate Nuisances through keeping Animals .....             | 8    |
| To Abolish Insanitary Ashpits .....                          | 25   |
| To Provide Proper Covers for Ashtubs .....                   | 37   |
| To Repair Broken Slop Pipes .....                            | 125  |
| To Open and Flush Waste Water Closets .....                  | 45   |
| To Provide Sliding Windows .....                             | 37   |
| To Repair Broken Closet Receptacle Doors .....               | 11   |
| To Repair Defective Roofage .....                            | 5    |
| To Abate Miscellaneous Nuisances .....                       | 20   |
| To Re-build Dangerous Closets, &c. ....                      | 3    |
| To Cease Keeping Lodgers .....                               | 3    |
| To Abolish Middens .....                                     | 6    |

## FARMS AND DAIRIES.

All the Farms in the Borough were inspected periodically during the year.

The following improvements have been effected—

|                                                     |    |
|-----------------------------------------------------|----|
| New Shippon Built .....                             | 1  |
| Shippon Re-constructed .....                        | 1  |
| Gullies and Drains removed from Shippons .....      | 9  |
| Gullies and Drains removed from Dairies .....       | 3  |
| New Midden Steads constructed .....                 | 2  |
| Lighting and Ventilation of Shippons improved ..... | 5  |
| Shippon Pavement re-laid or repaired .....          | 3  |
| Defective Drains repaired .....                     | 10 |
| To cease keeping Pigs in Shippon .....              | 1  |
| Dirty Shippons Limewashed .....                     | 12 |

## FACTORIES AND WORKSHOPS.

During 1905 there were 499 Visits made to the Workshops within the Borough.

The following Nuisances were abated after Notice had been served—

|                                   |    |
|-----------------------------------|----|
| Limewash and Cleanse .....        | 16 |
| Drains Defective .....            | 4  |
| Insufficient Ventilation .....    | 2  |
| Defective Water Closets, &c. .... | 6  |
| Miscellaneous .....               | 1  |

Further particulars will be found in the Medical Officer's Report.

## HACKNEY CARRIAGES.

As Hackney Carriage Inspector for the Borough, I have granted the following Licenses—

|                                    |    |              |   |
|------------------------------------|----|--------------|---|
| Licenses for Cars .....            | 8  |              |   |
| Licenses for Hackney Carriages ... | 11 |              |   |
| Licenses for Tramway Drivers ..... | 36 | Badges ..... | 0 |
| Licenses for Hackney Drivers ..... | 5  | „ .....      | 0 |
| Licenses for Hackney Conductors... | 0  | „ .....      | 0 |
| Licenses for Tramway Conductors    | 24 | „ .....      | 3 |

## SMOKE.

There were 30 Smoke Observations taken in 1905.

### OBSERVATION.

| Mill.                         | Black.<br>Minutes. | Moderate.<br>Minutes. | Not Smoking.<br>Minutes. |
|-------------------------------|--------------------|-----------------------|--------------------------|
| Spring Vale (tall) .....      | 8½                 | 11½                   | 40                       |
| Tackfield .....               | 5                  | 11                    | 44                       |
| Greenfield (new) .....        | 6                  | 10½                   | 43½                      |
| Springfield (Sough) .....     | 5½                 | 5½                    | 49                       |
| Hampden .....                 | 5½                 | 10                    | 44½                      |
| Albert .....                  | 6½                 | 15                    | 38½                      |
| Darwen Mills (Spinning) ..... | 5½                 | 13½                   | 41                       |
| Darwen Mills (Paper) .....    | 7½                 | 14½                   | 38                       |
| Britannia .....               | 6½                 | 17                    | 36½                      |
| Hope .....                    | 3½                 | 11½                   | 45                       |
| Spring Vale (low) .....       | 5½                 | 12                    | 42½                      |
| Whitehall .....               | 2                  | 8½                    | 49½                      |
| Bowling Green .....           | 3                  | 11                    | 46                       |
| Vale Brook .....              | 3½                 | 9                     | 47½                      |
| No. 1 Spinning.....           | 5½                 | 12                    | 42½                      |
| Rose .....                    | 6½                 | 15                    | 38½                      |
| Sudell Side .....             | 7                  | 11½                   | 41½                      |
| Two Gates .....               | 3                  | 14                    | 43                       |
| Industry .....                | 5½                 | 13                    | 41½                      |
| Cotton Hall (Whipps) .....    | 5                  | 14½                   | 40½                      |
| South Street .....            | 6                  | 12                    | 42                       |
| Darwen Mills (Paper) .....    | 10                 | 16½                   | 33½                      |
| Darwen Mills (Spinning) ..... | 7                  | 15½                   | 37½                      |
| Hope .....                    | 7½                 | 14½                   | 38                       |
| No. 1 Spinning .....          | 9                  | 12                    | 39                       |
| Albert .....                  | 10                 | 12½                   | 37½                      |
| Bowling Green .....           | 7                  | 13½                   | 39½                      |
| Hampden .....                 | 8                  | 15                    | 37                       |
| Spring Vale (tall) .....      | 10½                | 13                    | 36½                      |
| Progress .....                | 6                  | 14                    | 40                       |
| Average .....                 | 6.2                | 12.7                  | 41.1                     |

## MISCELLANEOUS INFORMATION.

130 Snow Notices were served.

29 Agreement Forms for the Corporation to carry out repairs to Drains, Ashpits, Back Yards, Waste Water Closets, &c., have passed through this Department to the Surveyor's Department.

During the year Two Notices were served to close Schools, owing to the prevalence of Scarlet Fever and Measles.

121 Inspections were made to Caravans.

A number of Supplementary Reports have been submitted during the year on Farms, Infectious Diseases, Smoke, &c.

Yours obediently,

**W. E. MARSDEN.**



**SANITARY OFFICES,**

**March, 1906.**

**Northern District.**

**TO THE CHAIRMAN AND MEMBERS OF THE  
HEALTH COMMITTEE.**

Gentlemen,

I beg to submit a Report to you of the work carried out in the District during the year ending December 31st, 1905.

**INFECTIOUS DISEASES.**

There were 234 Cases reported, as follows—

| Ward.              | Scarlet<br>Fever. | Typhoid<br>Fever. | Diph-<br>theria. | Erysi-<br>pelas. | Puerperal<br>Fever. | Total. |
|--------------------|-------------------|-------------------|------------------|------------------|---------------------|--------|
| West-Central ..... | 44                | 1                 | 1                | 2                | 1                   | 49     |
| North-East .....   | 82                | 13                | 9                | 13               | 1                   | 118    |
| North-West .....   | 56                | 3                 | 3                | 4                | 1                   | 67     |
|                    | <hr/>             | <hr/>             | <hr/>            | <hr/>            | <hr/>               | <hr/>  |
| Total .....        | 182               | 17                | 13               | 19               | 3                   | 234    |
|                    | <hr/>             | <hr/>             | <hr/>            | <hr/>            | <hr/>               | <hr/>  |

I removed 55 Persons suffering from Scarlet Fever to the Hospital, or 30 per cent. of those reported in the District.

All the houses in which Persons have been reported as suffering from Infectious Diseases have been thoroughly examined, and many improvements of a Sanitary character carried out. Particular attention has been paid to the thorough isolation of the Patients at the termination of each case. The rooms were thoroughly fumigated, and the Bedding, Carpets, &c., conveyed to Bull Hill Hospital and disinfected in the Superheated Steam Disinfector. During the year a total of 176 loads of Bedding were disinfected.

### **SUMMARY OF NUISANCES DEALT WITH IN THE DISTRICT.**

|                                                                                          |      |
|------------------------------------------------------------------------------------------|------|
| Defective Drains .....                                                                   | 130  |
| Waste Pipes directly connected .....                                                     | 2    |
| Defective Soilpipes .....                                                                | 3    |
| Defective Water Closets .....                                                            | 10   |
| Defective Downspouts and Easing Troughs .....                                            | 67   |
| Insanitary Yards .....                                                                   | 46   |
| Dirty Houses .....                                                                       | 118  |
| Houses Insufficiently Ventilated .....                                                   | 6    |
| Filthy Closets .....                                                                     | 28   |
| Accumulation of Refuse .....                                                             | 42   |
| Nuisances from the Keeping of Animals .....                                              | 7    |
| Choked Waste Water Closets .....                                                         | 33   |
| Insanitary Ashpits .....                                                                 | 47   |
| Ashestubs without Covers .....                                                           | 57   |
| Broken Slop Pipes .....                                                                  | 73   |
| Dangerous Buildings .....                                                                | 20   |
| Broken Ashestubs .....                                                                   | 26   |
| Broken Closet Receptable Doors .....                                                     | 20   |
| Insanitary Cesspools .....                                                               | 6    |
| Factory Chimneys emitting Black Smoke beyond Time Limit ...                              | 4    |
| Nuisances of a Miscellaneous Character .....                                             | 24   |
| Total Number of Nuisances Discovered .....                                               | 769  |
| Preliminary Notices Served .....                                                         | 449  |
| Legal Notices Served .....                                                               | 291  |
| Number of Re-inspections .....                                                           | 2549 |
| Number of Nuisances Abated (including outstanding Nuisances<br>discovered in 1904) ..... | 810  |
| Number of Houses Inspected .....                                                         | 3366 |
| Number of Inspections of Refuse Tips .....                                               | 38   |

Over 100 Complaints have been received and investigated during the year.

## DAIRIES, COWSHEDS, AND MILKSHOPS.

The whole of the Farms, &c., in the Northern District were kept under constant supervision during the year. The Dairies, Cowsheds and Milkshops Regulations have been strictly enforced, resulting in the following improvements having been effected—

|                                                       |    |
|-------------------------------------------------------|----|
| Lighting and Ventilation of Shippons improved .....   | 3  |
| Shippon Pavement re-laid or repaired .....            | 2  |
| Defective Drains repaired .....                       | 3  |
| New Midden Steads constructed .....                   | 1  |
| Dirty Shippons Limewashed .....                       | 10 |
| Easing Troughs and Downspouts fixed or repaired ..... | 2  |
| Repairs to Roofage of Shippons .....                  | 2  |
| Cesspool constructed for reception of Sewage .....    | 1  |
| New Pigsties constructed .....                        | 2  |

At Turn Lane Farm a new Well has been constructed, and a better Water Supply obtained.

The Moss Farms are now supplied from a Well, which has been sunk in the field. Every precaution has been taken in its construction to guard against pollution. A sample of the water was analysed by the Medical Officer of Health, and I also submitted a sample to the County Analyst for analysis. For further particulars see Medical Officer's Report.

Five Farmers have applied to be registered in the district as purveyors of milk under the Dairies, Cowsheds and Milkshops Orders during the year. Previous to registration the Farms, Drains, &c., were thoroughly inspected, and certain structural improvements were recommended.

## BLACK SMOKE NUISANCE.

The following are the particulars of 51 Smoke Observations taken in the Northern District during the year—

| MILL.                     | Black Smoke. | Mod. Smoke. | Slight Smoke. | Not Smoking. | Date Reported to Committee. | Legal Notice Served. | REMARKS.                                                                     |
|---------------------------|--------------|-------------|---------------|--------------|-----------------------------|----------------------|------------------------------------------------------------------------------|
| Anaglypta Works .....     | 4            | 6½          | 9½            | 40           | Aug. 23.....                | .....                |                                                                              |
| Barley Bank.....          | 5½           | 6½          | 14            | 34           | " .....                     | .....                |                                                                              |
| Bank Top .....            | 2            | 12          | 29            | 17           | Feb. 23 .....               | .....                |                                                                              |
| " .....                   | 1½           | 20          | 21½           | 17           | Dec. 14 .....               | .....                |                                                                              |
| Belgrave .....            | 1½           | 7           | 28½           | 23           | Aug. 23 .....               | .....                |                                                                              |
| " .....                   | 10           | 17          | 17            | 16           | Dec. 14 .....               | .....                |                                                                              |
| " (South) .....           | 7½           | 15½         | 23            | 14           | June 22 .....               | .....                |                                                                              |
| " .....                   | 4½           | 7½          | 33½           | 14½          | Oct. 18 .....               | .....                |                                                                              |
| " .....                   | 8            | 12½         | 27            | 12½          | Dec. 14 .....               | .....                |                                                                              |
| Bottom Croft .....        | 11           | 14½         | 16½           | 18           | July 27 .....               | Aug. 5 .....         |                                                                              |
| " .....                   | 6½           | 15          | 24½           | 14           | Oct. 18 .....               | .....                |                                                                              |
| Bright Street .....       | 5½           | 6           | 14½           | 34           | Aug. 23 .....               | .....                |                                                                              |
| Charles Street .....      | 3            | 10          | 26            | 21           | June 22 .....               | .....                |                                                                              |
| Cobden Mill .....         | ...          | 11½         | 24            | 24½          | Dec. 14 .....               | .....                |                                                                              |
| Cotton Hall Spinning..... | 1½           | 12½         | 15            | 31           | June 22 .....               | .....                |                                                                              |
| " .....                   | 13½          | 10          | 9             | 27½          | Nov. 23.....                | Dec. 7 .....         | Mechanical stokers fixed.                                                    |
| " Weaving.....            | 3½           | 7           | 13            | 36½          | June 22 .....               | .....                |                                                                              |
| " .....                   | 2            | 9½          | 30½           | 18           | Dec. 14 .....               | .....                |                                                                              |
| George Street .....       | 7½           | 23          | 16            | 13½          | June 22 .....               | .....                |                                                                              |
| Hey Fold .....            | 5½           | 14          | 17            | 23½          | July 27 .....               | .....                |                                                                              |
| Hillside .....            | 1½           | 4½          | 28            | 26           | June 22 .....               | .....                |                                                                              |
| " .....                   | 1½           | 20½         | 22            | 16           | Dec. 14 .....               | .....                |                                                                              |
| Hindle Street .....       | 8            | 8           | 23½           | 20½          | Aug. 23 .....               | .....                |                                                                              |
| Hollins Grove .....       | 1½           | 10½         | 15            | 33           | " .....                     | .....                | Mechanical stokers fixed.                                                    |
| " .....                   | 2            | 6½          | 30            | 21½          | " .....                     | .....                |                                                                              |
| " .....                   | 2            | 10½         | 39½           | 8            | Oct. 18 .....               | .....                |                                                                              |
| " .....                   | 3½           | 9½          | 32½           | 14           | Dec. 14 .....               | .....                |                                                                              |
| Hollins (Tall Chimney)... | 10           | 30½         | 14            | 5½           | " .....                     | .....                |                                                                              |
| Lorne Street.....         | 2            | 3           | 8½            | 46½          | Aug. 23 .....               | .....                |                                                                              |
| Lower Wood.....           | 3            | 6½          | 13            | 37½          | June 22 .....               | .....                |                                                                              |
| " .....                   | 10½          | 11          | 4             | 34½          | Oct. 18 .....               | Oct. 31 .....        | Mechanical stokers fixed.                                                    |
| " .....                   | ½            | 9½          | 50            | ...          | Dec. 14 .....               | .....                |                                                                              |
| Orchard .....             | 4            | 14½         | 25½           | 16           | June 22 .....               | .....                |                                                                              |
| " .....                   | 4½           | 16½         | 23½           | 15½          | Oct. 18 .....               | .....                |                                                                              |
| " .....                   | 9            | 19½         | 21½           | 10           | Dec. 14 .....               | .....                |                                                                              |
| Provident .....           | 8            | 9           | 9½            | 33½          | Nov. 23 .....               | .....                |                                                                              |
| Queen Street.....         | 7            | 5½          | 6½            | 41           | June 22 .....               | July 6 .....         |                                                                              |
| " .....                   | 10½          | 8½          | 3½            | 37½          | Oct. 18 .....               | .....                | Committee decided to take summary proceedings, but firm fixed mech. stokers. |
| Vale Street .....         | 8½           | 8           | 12            | 31½          | June 22 .....               | July 6 .....         |                                                                              |
| " .....                   | 7½           | 13          | 9             | 30½          | Oct. 18 .....               | .....                | Committee decided to take summary proceedings, but firm fixed mech. stokers. |
| " .....                   | 10           | 14          | 15            | 21           | June 22 .....               | July 6 .....         |                                                                              |
| " .....                   | 13½          | 13          | 7½            | 26           | " .....                     | " .....              |                                                                              |
| Radford Street.....       | 5            | 5½          | 8             | 41½          | Oct. 18 .....               | .....                |                                                                              |
| Robert Street .....       | 4½           | 11          | 9½            | 35           | June 22 .....               | .....                |                                                                              |
| Springfield (Bolton Road) | 10½          | 14½         | 14            | 21           | July 27 .....               | Aug. 5 .....         |                                                                              |
| " .....                   | 11           | 10          | 10½           | 28½          | Oct. 18 .....               | Oct. 31 .....        |                                                                              |
| " .....                   | 11½          | 14½         | 11            | 23           | Dec. 14 .....               | .....                | Committee decided to take summary proceedings, but firm fixed mech. stokers. |
| Woodfold .....            | 7½           | 13½         | 15            | 24           | July 27 .....               | .....                |                                                                              |
| " .....                   | 13½          | 15½         | 9             | 22           | Oct. 18 .....               | Oct. 31 .....        |                                                                              |
| " .....                   | 2½           | 8           | 18            | 31½          | Dec. 14 .....               | .....                |                                                                              |
| Woodside .....            | 1            | 10          | 27½           | 21½          | Oct. 18 .....               | .....                |                                                                              |
| Average per Hour ...      | 5.8          | 11.6        | 18.5          | 23.9         |                             |                      |                                                                              |

From the foregoing particulars you will observe that Black Smoke was emitted on Nine occasions for more than 10 minutes per hour from the chimneys of Seven Mills, in Four instances after Legal Notices had been served by order of the Council. The Committee were instituting legal proceedings against the Four offending parties, when letters were received from them asking for an extension of time, intimating that they were about to fix Mechanical Stokers to their boilers. The Committee very willingly granted them Six weeks' grace, and at the expiration of this period the Four firms mentioned had carried out their intentions. I am pleased to state that there has been a decided improvement in each case, although the chimneys are exceedingly low.

Particulars of the Boilers at the various Factories in the Northern District—

| Name of Mill.              | No. of Boilers.<br>No. of Fires<br>each Boiler. |     | Size of Boiler.                            | Nature of Stoking Apparatus (if any).                                |
|----------------------------|-------------------------------------------------|-----|--------------------------------------------|----------------------------------------------------------------------|
| Radford Street.....        | 1                                               | 2   | 30ft by 8ft                                | Hand fired.                                                          |
| Springfield Mill .....     | 1                                               | 2   | 21ft by 7ft                                | Procter's mechanical stoker, moveable bars.                          |
| South Belgrave .....       | 3                                               | 2   | { 1, 28ft by 8ft 6in<br>2, 28ft by 7ft     | { " " " "                                                            |
| Belgrave .....             | 3                                               | 2   | { 1, 30ft by 8ft 6in<br>2, 30ft by 7ft 3in | { Hand fired.                                                        |
| Bank Top .....             | 1                                               | 2   | 30ft by 8ft                                | Procter's self-feeding mechanical stoker,<br>moveable bars.          |
| Hillside .....             | 1                                               | 2   | "                                          | Whittaker's automatic stoker.                                        |
| Triperies .....            | 1                                               | 1   | 20ft by 5ft                                | Hand fired.                                                          |
| Woodside .....             | 2                                               | 2   | each, 30ft by 7ft                          | Bennis's mechanical stoker, moveable bars.                           |
| Queen Street .....         | 1                                               | 2   | 23ft by 7ft 6in                            | Leach's " " sprinkler only.                                          |
| Lower Wood.....            | 1                                               | ... | 20ft 6in by 7ft 6in                        | Procter's " " moveable bars.                                         |
| Robert Street Foundry ...  | 1                                               | 1   | 15ft by 5ft                                | Hand fired.                                                          |
| Vale Street .....          | 1                                               | 2   | 32ft by 7ft 6in                            | Bennis's mechanical stoker, moveable bars,<br>automatic damper, etc. |
| Orchard Mill (Martin's)... | 1                                               | 2   | 30ft by 8ft                                | Procter's mech. stoker, moveable                                     |
| Commercial .....           | 1                                               | 2   | 30ft by 7ft 6in                            | Hand fired. [bars. } One chimney                                     |
| Orchard (Pegamoid) .....   | 1                                               | 2   | 30ft by 8ft                                | "                                                                    |
| George Street .....        | 1                                               | 2   | "                                          | Procter's mechanical stoker.                                         |
| Townfield.....             | 1                                               | 2   | "                                          | Whittaker's mechanical stoker, draught<br>induced by fan.            |
| Electricity Works .....    | 2                                               | 2   | each, 32ft by 9ft                          | Hand fired.                                                          |
| Union Street Saw Mills...  | 1                                               | 1   | 14ft by 6ft                                | "                                                                    |
| Brookside .....            | 1                                               | 2   | 30ft by 8ft 6in                            | "                                                                    |
| Gas Works .....            | 2                                               | 2   | 26ft by 7ft 6in                            | Meldrum's forced draught.                                            |
| Cotton Hall Spinning.....  | 2                                               | 2   | each, 30ft by 8ft                          | Bennis's mechanical stoker, moveable bars.                           |
| " Weaving.....             | 1                                               | 2   | 30ft by 7ft 6in                            | Procter's " "                                                        |
| Provident .....            | 1                                               | 2   | 27ft by 9ft                                | Hand fired.                                                          |
| Hey Fold .....             | 2                                               | 2   | { 30ft by 8ft<br>27ft by 7ft               | "                                                                    |
| Hindle Street .....        | 1                                               | 2   | 30ft by 8ft                                | Whittaker's mechanical stoker.                                       |

Particulars of the Boilers, &c.—Continued.

| Name of Mill.            | No. of Boilers. | No. of Fires each Boiler. | Size of Boiler.                | Nature of Stoking Apparatus (if any).                   |
|--------------------------|-----------------|---------------------------|--------------------------------|---------------------------------------------------------|
| Barley Bank.....         | 1               | 2                         | 28ft 6in by 8ft                | Hand fired.                                             |
| Lorne Street.....        | 1               | 2                         | 30ft by 7ft 6in                | "                                                       |
| Dove .....               | 1               | 2                         | 30ft by 8ft                    | "                                                       |
| Bottom Croft .....       | 2               | 2                         | { 30ft by 8ft }<br>28ft by 7ft | "                                                       |
| Lloyd & Millward's ..... | 1               | 2                         | 25ft by 7ft                    | "                                                       |
| Hollins Grove .....      | 2               | 2                         | 28ft by 9ft                    | The E.S.E. stokers, draught induced by fan              |
|                          | 2               | 2                         | 30ft by 8ft                    | Hand fired.                                             |
| Hollins (Tall Chimney) { | 1               | ...                       | 28ft by 8ft                    | "                                                       |
|                          | 1               | ...                       | 30ft by 7ft 6in                | "                                                       |
|                          | 1               | ...                       | 20ft by 8ft 6in                | "                                                       |
| „ (Low Chimney)...       | 2               | 3                         | 30ft by 9ft                    | "                                                       |
| Anaglypta.....           | 1               | 2                         | "                              | "                                                       |
| Cobden .....             | 1               | 2                         | 30ft by 8ft                    | Procter's mechanical stoker, moveable bars.             |
| Anchor .....             | 1               | 2                         | "                              | Bennis's self-feeding mechanical stoker, moveable bars. |
| Olive .....              | 1               | 2                         | 32ft by 9ft                    | " " "                                                   |
| Woodfold .....           | 1               | 2                         | 30ft by 8ft                    | Hand fired.                                             |
| Knowles's Saw Mills..... | 1               | 1                         | 26ft by 7ft                    | "                                                       |
| Carrs .....              | 2               | 2                         | 30ft by 7ft 6in                | "                                                       |
| High Street Foundry..... | 1               | 1                         | 17ft by 3ft 6in                | "                                                       |
| Bank Top Machine W'ks    | 1               | 1                         | Portable Boiler                | Coke only used as fuel.                                 |

### TRIPERIES.

As previously instructed, I have kept the Triperies under close observation. A Special Report was submitted to the Committee during the year, in which I stated that I had visited the Triperies almost every day, and at various times during the day. On each occasion I have found the work being carried out in a satisfactory manner, and nothing but wholesome material being used. Attention has also been paid to the emptying of the Vats and Settling Tank each day. I have not received a single complaint during the year.

### SCHOOLS.

There are 13 Public Elementary Schools in the Northern District. These have been visited regularly during the year, and the whole of them disinfected when closed during Epidemics of Measles, &c. The Closets at Ten of the Schools have now been converted from the Pail to the Latrine System.

## **FACTORIES, WORKSHOPS AND BAKEHOUSES.**

Systematic inspection of these places of employment has been carried out during the year ; 376 visits having been paid to them. As previously stated in the Medical Officer's Report, this constant supervision has resulted in a general improvement. Thirty-six defects, already enumerated in the Medical Officer's Report, have been remedied during the year

The Bakehouses have received special attention, and all reasonable precautions are taken in order that wholesome articles of food may be produced.

## **MODEL LODGING HOUSE.**

I have kept the above House under supervision during the year, and have always found it to be kept in a satisfactory condition.

During the month of July I superintended the Disinfection of the whole of the Bedrooms.

During the year I have inspected Ten Caravans which were located in a Field near the Anchor Farm ; I found them all to be kept in a cleanly condition.

48 Agreement Forms have been signed by Owners of Property in the Northern District for the Corporation workmen to carry out repairs, &c., to Back Yards, Drains, Waste Water Closets, &c. This work has been done under my supervision.

I am, Gentlemen,

Yours obediently,

**C. R. WALSH,**

Inspector of Nuisances.





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REPORT  
OF THE  
**SCAVENGING SUPERINTENDENT**  
FOR THE  
Year ending December 31st, 1905.

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# SUPERINTENDENT'S OFFICE,

## CLEANSING DEPARTMENT.

To the Chairman and Members of the Health Committee.

Gentlemen,

I beg to submit my Report for the year ending December 31st, 1905.

The following Table shows how the Ashes, &c., are disposed of—

|                                                              | Tons.   | Cwts.  | Qrs. |
|--------------------------------------------------------------|---------|--------|------|
| House Refuse to Destructor .....8128 Loads                   | 9351    | 19     | 0.   |
| Market Garbage to Destructor ..... 482 Loads                 | 230     | 0      | 0    |
| Slaughter Garbage to Destructor .....                        | 50      | 12     | 0    |
|                                                              | 9632    | 11     | 0    |
| Mattresses, Beds, &c., to Destructor .....                   | 475     |        |      |
| Dogs, Cats, Fowls, &c., to Destructor .....                  | 202     |        |      |
| Clinkers removed from Destructor .....                       | 3,041   | Loads. |      |
| Excreta to Sewage Works .....                                | 6,518   | „      |      |
| Sweepings to Various Tips .....                              | 3,321   | „      |      |
| Gully Wreck to Various Tips .....                            | 1,047   | „      |      |
| Water on Streets .....                                       | 276     | „      |      |
| Length of Streets Swept by Machine .....                     | 589     | Miles. |      |
| Length of Streets Swept by Hand .....                        | 1,496   | „      |      |
| Street Gullies Emptied .....                                 | 25,724  |        |      |
| Back Yard Gullies Emptied .....                              | 25,373  |        |      |
| Excreta Pails Emptied .....                                  | 358,490 |        |      |
| Ashtubs Emptied .....                                        | 308,799 |        |      |
| Ashpits Emptied .....                                        | 2,642   |        |      |
| Ashtubs added during the year .....                          | 217     |        |      |
| Defective Gullies, &c., reported to Sanitary Inspectors..... | 211     |        |      |
| Pails brought in from Closet Alterations .....               | 60      |        |      |
| Snow removed from Streets .....                              | 276     | Loads. |      |

Yours obediently,

JOSEPH NICCOLL,

Cleansing Superintendent.



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REPORT  
OF THE  
MEAT INSPECTOR

FOR THE  
Year ending December 31st, 1905.

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## **To the Chairman and Members of the Slaughter Houses Committee.**

Gentlemen,

The character of the Meat Supply has been maintained, if not improved, during the year under observation ; in this respect it will compare favourably with that of any other town. This has been arrived at by the co-operation of the local butchers, by a strict watch being kept over importations, and, in particular, also by enforcing the law against illegal slaughtering.

### **TRIPERIES.**

The quality and quantity prepared for human consumption compares favourably with previous years. Most of it comes from Birkenhead and Glasgow.

About 360 tons has been prepared during the year.

The number of Cattle Slaughtered during the year ending December 31st, 1905, are as follows—

### **SLAUGHTERING LICENSES ISSUED**

As follows—Beasts, 1 ; Sheep, 4 ; Calves, 2 ; Swine, 47 ; Goats, 1 ; which have been inspected and found fit for food.

### **PUBLIC ABATTOIRS.**

|              |      |                           |              |      |
|--------------|------|---------------------------|--------------|------|
| Beasts ..... | 1178 | Corresponding year 1904 : | Beasts ..... | 1238 |
| Sheep .....  | 6779 | „ „ „                     | Sheep .....  | 7315 |
| Calves ..... | 153  | „ „ „                     | Calves ..... | 218  |
| Swine .....  | 719  | „ „ „                     | Swine .....  | 691  |
| <hr/>        |      |                           | <hr/>        |      |
| Total.....   | 8829 |                           | Total.....   | 9462 |
| <hr/>        |      |                           | <hr/>        |      |

Showing a decrease for the current year of 633 head all told, which is accounted for by one of our Butchers giving over killing, and getting his meat elsewhere.

### PRIVATE PREMISES.

|              |       |                          |              |       |
|--------------|-------|--------------------------|--------------|-------|
| Beasts ..... | 818   | Corresponding year 1904: | Beasts ..... | 726   |
| Sheep .....  | 3931  | „ „ „                    | Sheep .....  | 4631  |
| Calves ..... | 191   | „ „ „                    | Calves ..... | 191   |
|              | <hr/> |                          |              | <hr/> |
| Total.....   | 4940  |                          | Total.....   | 5548  |
|              | <hr/> |                          |              | <hr/> |

### BUTCHERS' VANS

Are inspected regularly, and are kept in very good condition as regards cleanliness. The meat is also of good quality.

### MEAT DESTROYED AS UNFIT FOR FOOD.

During the year there has been destroyed as unfit for food—1 Beast, 8 Sheep, 1 Calf, 2 Swine, Odding—i.e., Lungs, Liver and Internal Organs, &c.,—2 tons 3 cwt. 14 lbs.

I beg to thank the Members of the Committee for their generous help at all times.

I remain, Gentlemen,

Your humble servant,

**WILLIAM BICKERSTAFFE,**

Meat Inspector.

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